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INTRODUCTION

Lockerby Composite School – MISSION STATEMENT

At Lockerby Composite School we are committed to developing life-long learning to ensure continuous success in the global community. In a safe and caring environment, we promote affirmative collaboration, effective communication, and leadership opportunities for all.

Our Guiding Principles:

- To meet the needs of every student
- To foster a community of learners
- To keep our school safe
- To ensure that school-based decisions are in the context of continuous school improvement
- To foster academic success for every student
- To enhance collegiality and professional growth
- To encourage innovation, initiative, and creativity
- To celebrate success and promote a sense of pride
- To nurture strong partnerships between the school, the home, and the community
- To maintain honest and open communication

Course Selection Process

Starting in Grade 9, students make choices about both the subjects and the types of courses that they take. Teachers, counsellors, and parents all work with students to help them make the best possible choices. These choices are based on students’ interests, learning styles, preferences, past successes, future goals, and diploma requirements.

Responsibility for planning the student’s program is shared by the student, his or her parents, the guidance counsellor, the teacher-advisor, and school administrators. The Principal and staff of a school may make recommendations to students and their parents regarding the selection of courses. These recommendations are based on the best information available about the individual student’s abilities, achievements, interests, and educational goals. Such advice should be considered carefully because they may have a significant influence on students’ selections. Students and their parents have the right to make alternative course selections, but they should be aware of the requirements of the O.S.S.D. Students need not choose all courses at the same level of difficulty. In addition, students should note that some subjects support national objectives such as personal fitness and health, and understanding of English and French as official languages, the benefits of multiculturalism, and an awareness of Canada’s cultural heritage.

The process of choosing one’s courses should be done wisely. Course selections made in February for the following year are the basis on which classes are structured and staff are assigned. After staffing and the school’s master timetable have been established, subsequent changes in a student’s program are possible but very much restricted, and will be considered if the timetable and class sizes permit.
Ontario Secondary School Diploma (OSSD)

The graduation requirements emphasize a challenging, high-quality curriculum and the achievement by students of measurable results. In keeping with the emphasis on high standards, students are required to complete 30 courses, each scheduled for 110 hours. 18 of these courses are “compulsory”; that is, all students must take specific courses in mandatory subject areas. The remaining 12 courses are “electives” which may be selected from many areas of interest.

Compulsory credits include

- 4 English/Français – one credit per grade *
- 1 French as a Second Language / English/Anglais
- 3 Mathematics – at least one in Grade 11 or 12
- 2 Science
- 1 of Grade 11 or 12 Science or Grade 9 – 12 Technology
- 1 Canadian History
- 1 Canadian Geography
- 1 Arts (Music or Visual Arts)
- 1 Physical Education and Health
- 0.5 Civics
- 0.5 Career Studies
- 1 of Group 1 - an additional English credit
  - or French as a second language, **
  - or a Native language,
  - or a classical or an international language,
  - or a social science and the humanities,
  - or Canadian and World Studies
  - or guidance and career education, or cooperative education ***
- 1 of Group 2 - an additional credit in health and physical education
  - or the arts,
  - or business studies,
  - or French as a second language, **
  - or cooperative education ***
- 1 of Group 3 - an additional credit in science (Grades 11 or 12)
  - or technical education,
  - or French as a second language, **
  - or computer studies,
  - or cooperative education ***

In addition to the compulsory credits, students must complete: 12 optional credits +

40 hours of community service
the provincial literacy requirement

* A maximum of 3 credits in English as a second language (ESL) may be counted towards the 4 compulsory credits in English, but the fourth must be a credit earned for a Grade 12 compulsory English course.

** In Groups 1, 2 and 3, a maximum of 2 credits in French as a second language can count as compulsory credits, one from Group 1 and one from either Group 2 or Group 3.

*** A maximum of 2 credits in cooperative education can count as compulsory credits.

+ The 12 optional credits may include up to 4 credits earned through the approved dual credit courses.

Additional details regarding compulsory credit requirements can be found in Ontario Schools, Kindergarten to 12 Policy & Program Requirements 2011. http://www.edu.gov.on.ca/eng/document/policy/os/onschools.pdf. The curriculum is designed to allow students to create a personalized pathway based on their interests and needs within graduation requirements.

Elective credits

The remaining 12 credits are optional, allowing students to pursue individual interests and meet university, college or work requirements. These credits are selected from available courses.

Credits

A credit is granted when a course that has been scheduled for 110 hours is successfully completed. “Scheduled time” is defined as the time during which students participate in planned learning activities designed to lead to the achievement of curriculum expectations. Planned learning activities include the interaction between the teacher and the student as well as assigned individual and/or group work, excluding homework.
Substitutions for Compulsory Courses
In rare cases (with the principal’s permission), there is a need to be flexible and support students so they can obtain their secondary school diploma. To do this, up to three (3) compulsory substitutions may be made for a limited number of compulsory credit courses. These substitutions come from the remaining courses offered by the school that meet the requirements for compulsory courses. Credits earned through cooperative education, and English as second language courses may not be used through substitution to meet compulsory credit requirements.

Ministry Approved Credits Taken Outside of School
Students who complete approved Ministry Courses outside of school can have their results added to their high school transcript. This is a common practice for students who complete their Grade 8, Music Conservatory program.

http://www.edu.gov.on.ca/eng/parents/speced.html

Additional Diploma Requirements
In addition to achieving 30 credits, students are also required to:

• Complete 40 hours of documented community involvement
• Successfully complete the Provincial Grade 10, Reading and Writing Literacy Test - OSSLT

Community Involvement
Students must complete 40 hours of community service in order to achieve their graduate diploma. These hours can begin the summer prior to starting high school. Local charities promote their upcoming activities and this information can be found on the school website and also in the Volunteer binder in Guidance. Parents and students are encouraged to visit http://www.rainbowschools.ca/students/communityhours.php for detailed information about volunteering in our community.

The Ontario Secondary School Literacy Test – OSSLT
Since 1999-2000, all students must successfully complete the OSSLT in order to earn their secondary school diploma. Most students take this test in Grade 10. The test is based on Ontario Grade 9 curriculum expectations for language and communication, particularly reading and writing. Students who struggle with literacy or who are unsuccessful on the test will have an opportunity to complete remedial assistance to better prepare them for this test. If upon repeated attempts, a student continues to be unsuccessful on the Literacy Test, opportunities will be made available for the student to take the Ontario Secondary Literacy Course OSSLC. A successful completion of this course will meet the Ministry standard for additional diploma requirements.

Accommodations will be made to ensure that students who are receiving special education programs/ services and who have an Individual Education Plan (IEP) have a fair and equal opportunity to successfully complete the OSSLT. Accommodations may come in alternative forms of print or extra time but the actual content of the secondary literacy test is never altered. Some students may benefit from a deferral of the test. Deferred students may include students registered in English as a second language course or students who have not yet acquired the level of proficiency in English required for successful completion of the test. Lastly, exemptions will be made for students whose IEP indicates that the student is not working towards the attainment of a secondary school diploma. Before an exemption can take place, parental consent and approval from the principal must be obtained.

Adjudication
To prepare for the OSSLT all Grade 10 students participate in a school based review process to ensure they are prepared for the demands of the test. Strict guidelines are followed for the adjudication of the OSSLT.

Ontario Secondary School Certificate (OSSC)
The OSSC will be granted on request to students who leave school before earning the OSSD, provided they have earned a minimum of 14 credits, as follows:

• 2 English
• 1 Canadian geography or Canadian history
• 1 mathematics
• 1 science
• 1 health and physical education
• 1 arts or technological education
• 7 optional credits selected from any available courses in the school

The provision for substitution for compulsory credits applies to the OSSC

The Certificate of Accomplishment
Students who leave school before fulfilling the requirements for the OSSD or the OSSC may be granted a Certificate of Accomplishment. This Certificate is a useful means of recognizing a student’s participation in the secondary school program, especially for those students who plan to take certain types of vocational programs or further training for employment after leaving school. A student may return to school or take additional credit courses after having received the Certificate. The student’s transcript (OST) will be updated, but a new Certificate will not be awarded when the student leaves again. A student who receives the Certificate and chooses to return to study at the secondary level may earn the OSSC and/or the OSSD after fulfilling the appropriate credit requirements for each.
PATHWAYS

All courses offered at Lockerby Composite School have been developed according to the requirements set by the Ontario Ministry of Education and Training. Lockerby is committed to equal educational opportunities. The courses of study for all subjects are available at the school for parental perusal.

Types of pathways at Grades 9 and 10

Grades 9 and 10 pathways are organized into four types of programs: Academic, Applied, Open, and Locally Developed Credit Courses. All programs build on the Grade 8 curriculum and have rigorous standards. All courses prepare students for study in the senior grades.

Academic and Applied courses differ in the balance between essential concepts and additional requirements, and in the balance between theory and application. They differ primarily, not in the level of skill required, but in the kinds of problems presented and application of the content and concepts.

Academic Courses
The course content focuses on the essential concepts of the discipline, and explores related concepts. Course delivery develops students’ knowledge and skills by emphasizing theoretical, abstract applications of the essential concepts. The emphasis is on theory and abstract thinking as a basis for future learning and problem solving.

Applied Courses
The course content focuses on the essential concepts of the discipline. Course delivery develops students’ knowledge and skills by relating to familiar real-life situations and provides students with the opportunity for hands-on applications of the concepts they study with theory to support learning.

Locally Developed Courses
These courses have been developed to meet educational needs not met by the existing provincial curriculum. The Ministry of Education has expanded its course offerings for Locally Developed and Work Place courses. At Lockerby these courses are available in Math and English. Each of these courses may be counted as a compulsory credit in that discipline. These courses provide additional support for students who experience considerable difficulties in the study of one or more of these subjects. There are very strict guidelines for the development of such courses, and all local courses require Ministry approval.

Open Courses
These courses have one set of expectations for the subject, appropriate for all students in a given grade. These courses are designed to provide students with a broad educational base that will prepare them for their studies in Grades 11 and 12, and for productive participation in society.

CHOOSING AN EDUCATIONAL PATHWAY

Students who are successful in an Academic or Applied course in Grade 9 will have the opportunity to enter either the Academic or Applied course in the same subject in Grade 10. The only exception to this rule is mathematics. A student cannot move from the applied stream to the academic stream in this area of study. A student would have to enrol in a Grade 9 Academic math before he or she could move to the Grade 10 Academic math program. However, students planning to change from one designated stream in Grade 9 to the other in Grade 10 may do so only after consultation with school staff and parent/guardian (guidance counsellor, teacher, or administration). Grade 10 Academic and Applied courses will prepare students for specific Grade 11 courses, in accordance with the stated prerequisites. Lastly, students may choose to have a combination of both applied and academic classes in their schedule. This rebalancing of one’s schedule should only be done in consultation with one’s guidance counsellor to ensure a student can achieve the necessary prerequisites required for their post secondary destination. In some cases these changes may not be possible due to timetabling constraints.
Types of Pathways in Grades 11 and 12

After Grades 9 and 10, courses are no longer referred to as Academic or Applied. Courses in Grades 11 and 12 are now organized into five types, based on students’ future destination. Students may choose from

- Workplace Preparation Courses (E)
- College Preparation Courses (C)
- University/College Preparation Courses (M)
- University Preparation Courses (U)
- Open Courses (O)

Course Codes

Each secondary school course is identified by a six-character code, as illustrated in the chart below

- The first three characters refer to the subject and specific area of study
- In most cases the fourth character refers to the grade: 1 = Grade 9; 2 = Grade 10
- The fifth character refers to the type of course as outlined below:
  - D = Academic; P = Applied; O= Open; L=Locally Developed Credit Course
- The sixth character is used by individual schools to identify special programs or credits:
  - E = Enriched, I = French Immersion, T = STEP, L = a STEP course taught in Laptop format, F = Female, M = Male

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<thead>
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<th>Course</th>
<th>Curriculum Policy Document</th>
<th>Subject</th>
<th>Grade or Level</th>
<th>Course Types</th>
<th>School Use</th>
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<tr>
<td>AVI 2O0</td>
<td>A = Arts</td>
<td>VI = Visual Arts</td>
<td>2 = Grade 10</td>
<td>O = Open</td>
<td>0 = standard</td>
</tr>
<tr>
<td>MPM 2DE</td>
<td>M = Math</td>
<td>PM = Principles of Mathematics</td>
<td>2 = Grade 10</td>
<td>D = Academic</td>
<td>E= Enriched</td>
</tr>
<tr>
<td>SBI 3UT</td>
<td>S = Science</td>
<td>BI-Biology</td>
<td>3 = Grade 11</td>
<td>U = University</td>
<td>T = STEP</td>
</tr>
<tr>
<td>SBI 3UL</td>
<td>S = Science</td>
<td>BI-Biology</td>
<td>3 = Grade 11</td>
<td>U = University</td>
<td>L = Laptop</td>
</tr>
<tr>
<td>MPM 2L0</td>
<td>M = Math</td>
<td>PM = Principles of Mathematics</td>
<td>2 = Grade 10</td>
<td>L = Locally Developed Credit Course</td>
<td>0 = standard</td>
</tr>
</tbody>
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Course Changes

Course changes can occur in consultation with a counsellor in the Guidance Department. The timelines for these changes are outlined in the school agenda. Before a change can be made in an area of study (moving from Academic to Applied), a parent’s signature is required. A parent’s signature is also required if a course is dropped, such as a Business class. The replacement of a course (moving from Art to Music) does not require a parent’s signature and can only be done if there is room in the class. School policy states that all students in Grade 9, 10 and 11 must carry a full course load unless permission has been received by the principal for an adjustment to one’s schedule.
ASSESSMENT AND EVALUATION OF STUDENT ACHIEVEMENT

At the start of each semester, students will receive a course profile and/or a course overview for each class they take. In this overview the assessment and evaluation procedures will be explained and students will learn whether they must complete a culminating activity or write a final exam.

The main purpose of assessment and evaluation is to improve student learning. The new document, Growing Success: Assessment, Evaluation & Reporting in Ontario Schools, Grades 1-12 outlines the new methods of assessment and evaluation to be used in the classroom.

http://www.edu.gov.on.ca/eng/policyfunding/success.html

Assessment is the process of gathering information from a variety of sources, including assignments, demonstrations, projects, performances, and tests. This information should demonstrate how well students are achieving the curriculum expectations. Assessment is ongoing and supportive.

Evaluation is the process of judging the quality of a student’s work on the basis of established achievement criteria and assigning a value to represent that quality. It reflects a student’s level of achievement using the provincial curriculum expectations at a given time.

Achievement Levels
Levels or degrees of achievement of the curriculum expectations are presented in achievement charts in each of the curriculum policy documents. The charts are organized into four broad categories of knowledge and skills:

- knowledge / understanding
- thinking
- communication
- application / making connections

The charts contain descriptions of each level of achievement in each category; these categories are broad in scope and general in nature, but they provide a framework for all assessment and evaluation practices. They enable teachers to make consistent judgements about the quality of student work and to give clear and specific information about student achievement to parents.

The achievement levels are associated with percentage grades and are defined as follows:

- 80 to 100 % Level 4: a very high to outstanding level, above provincial standards
- 70 to 79 % Level 3: a high level of achievement, at provincial standards
- 60 to 69 % Level 2: a moderate level of achievement, below but approaching the provincial standards
- 50 to 59 % Level 1: a passable level of achievement, below the provincial standard
- below 50 % insufficient achievement of the curriculum expectations, no credit granted

PLAR – Prior Learning Assessment and Recognition

Prior learning includes the knowledge and skills that students have acquired in both formal and informal ways, outside Ontario secondary classrooms.

PLAR Processes
The challenge process is the process whereby students’ prior learning is assessed for the purpose of granting a credit for a course developed from a provincial policy document. The equivalency process involves the assessment of credentials from other jurisdictions.

PPM No.129, “Prior Learning Assessment and Recognition (PLAR): Implementation in Ontario Secondary Schools” (July 6, 2001)

www.edu.gov.on.ca/extra/eng/ppm/129.html

Provincial Report Card
The Standard Provincial Report Card includes the following information:

- each subject that the student is studying
- student’s mark expressed as a percentage grade, along with the course median
- number of classes missed and times late for class
- student’s achievement in six learning skills and Work Habits: Responsibility, Organization, Independent Work, Collaboration, Initiative and Self-Regulation
- comments by each subject teacher including student strengths, areas for improvement, and suggested next steps, as appropriate
- an indication of the credit(s) granted for each course in which the student’s mark is 50% or higher

The report card includes information with respect to a student’s Individual Education Plan (IEP), where appropriate. Sections where the student and the parent or guardian can comment on the student’s progress so far are included at the end of the mid-term or mid-semester report card.

A summary of credits earned to date, including a breakdown of compulsory and optional elective credits, is provided at the end of the final report card of the semester or year.


Attendance
Regular attendance at school is critical for student learning and achievement of course expectations. Ministry of Education regulations allow credits to be granted upon the completion of 110 hours of classroom instruction per subject. It is the students’ responsibility to communicate reasons for absences. Students who have more than 10 unexcused absences may jeopardize their ability to successfully attain a credit.

Full Disclosure – Course Withdrawals and Repeated Courses
- Withdrawals and failed courses in Grade 9 and 10 are not recorded on the student’s Ontario Student Transcript (OST). Only successfully completed courses are recorded.
- If a student withdraws from a Grade 11 or 12 course within five instructional days following the issuance of each semester’s mid-term provincial report card, the withdrawal is not recorded on the OST.
- If a student withdraws from a Grade 11 or 12 course after five instructional days following the issuance of the mid-term provincial report card, the withdrawal is recorded on the OST. The student’s percentage grade at the time of the withdrawal is also recorded.
- Students who repeat a Grade 11 or 12 courses they have previously completed successfully, earn only one credit for the course. The only exception to this rule is in the area of technology.

SCHOOL RECORDS

Ontario Student Record
The Ontario Student Record folder (OSR) is the official record for a student. The OSR is created when a student enters the Ontario school system and moves with the student from school to school. Every Ontario school keeps an OSR for each student enrolled.

The OSR folder contains achievement results, credits earned, and other information important to the education of the student. The OSR is created under the authority of the Education Act, and the contents of the OSR are protected under the Freedom of Information and Protection of Privacy Act. Parents and the students may examine the contents of the OSR upon request, with the assistance of the principal or designated administrator.

Ontario Student Transcript
The Ontario Student Transcript (OST) provides a comprehensive record of a student’s overall achievement in high school. The transcript, which is part of the OSR, includes the following information:

- all Grade 9 and 10 courses successfully completed by the student, with percentage grades obtained and credits earned;
- all Grade 11 and 12 courses completed or attempted by the students, with percentage grade obtained and credits earned;
- identification of compulsory credits, including credits that are substitutions for compulsory credits identified by the Ministry as diploma requirements;
- confirmation that the student has completed the forty hours of community involvement; and,
- confirmation that the student has successfully completed the provincial secondary reading and writing test. (OSSLT- Ontario Secondary School Literacy Test)

REPORTING STUDENT PROGRESS

Evaluation Policies
Students will receive a detailed evaluation procedure from each teacher. Three reports of students’ progress will be sent home each semester:

- Interim – October/March
- Mid-term – November/April
- Final – January/June

A Parent-Teacher consultation evening will be held in October and March of each semester after the interim reports have been sent home.

Subject Promotion
During the academic year, students are evaluated on the basis of tests, projects, essays, or presentations and examinations. When a course is passed (50%), the student receives the credit value as stated in the handbook. Failed courses (below 50%) are given no credit value. Students may repeat a failed option or they may change to another option in the following semester. Compulsory ministry subjects must be passed.

Viking Scholars
Students who achieve an average of 80% or more on the year’s work are designated as Viking Scholars. These students are given special recognition for their achievement at an assembly in October to which parents and families are invited. A full year’s work is defined as:

- Grade 9  8 credits
- Grade 10  8 credits
- Grade 11  8 credits

Averages of 79.5% - 79.9% will be rounded to 80%. Eligibility for Viking Scholar recognition will be calculated once per year in June.

Roles and Responsibilities
The school’s student agenda can be found at www.lockerby.net. In it are the school’s expectations regarding student’s responsibilities as well as the school’s Code of Conduct. One may access the Rainbow School Board’s Policies at http://www.rainbowschools.ca.
SUPPORT FOR STUDENTS

Guidance and Career Education
The Guidance and Career Education program is a vital and integral part of the secondary school program. Through the program, students acquire the knowledge and skills they need in order to learn effectively, to live and work co-operatively and productively with a wide range of people, to set and pursue educational and career goals, and to carry out their social responsibilities. This program will be delivered in various ways, including classroom instruction, orientation and exit programs, career exploration activities, and individual assistance and counselling. Students are also required to complete a Grade 10 half-credit course in career studies. Each secondary school has a Guidance or Student Services Department, staffed by specially trained teachers, who are equipped with resources and information related to careers and education opportunities. A Student Success teacher, along with the counsellors, will develop a Grade 8 to 9 transition program and provide struggling students with intervention strategies.

Introduced in September 2013, all students in the secondary panel must produce a web based Individual Pathway Plan (IPP). Using the software myBlueprint, students will be responsible for discovering their strengths, interests and plan their courses related to learning and work. The student's IPP will be reviewed a minimum of twice a year with a teacher and/or guidance counsellor. This IPP planning process will help students develop a fuller understanding of the career/life inquiry process needed for post-secondary planning.

Special Education
Lockerby Composite School recognizes the needs of exceptional students and responds by providing a variety of program options for students who have been identified with special needs. After an IPRC (Identification, Placement, and Review Committee) identifies a student as exceptional, an IEP (Individual Education Plan) is developed and maintained for that student. An IEP may also be prepared for students who are receiving Special Education programs and services but who have not been identified as exceptional by an IPRC. To learn more about the Rainbow School Board’s Special Education Advisory Committee (SEAC) parents may refer to the Special Education Parent’s Guide pamphlet available in Guidance and may contact the Special Education Department in the school.

Credit Intervention Strategies
Today an important focus in education is to improve student achievement by giving specific attention to the individual learner. At Lockerby Composite School, Student Success Teams work closely with the classroom teachers to help provide supports for struggling students. Examples of interventions used to support students are peer tutoring programs, after school remediation, intervention with the home, differentiated instruction and intervention, customized timetables, tracking and monitoring system, assigning of a caring adult, homework contracts as well as other specialized programs provided by the school board.

myBlueprint Education Planner 2.0 (www.myBlueprint.ca/Rainbow)

Plan your steps. Track your progress. Unlock your future.

Did you know? You can interactively plan your courses, track your progress towards a high school diploma and instantly discover the opportunities available to you entirely online using a resource called myBlueprint!

Ensure you are making the best decisions by following these easy steps:
1) Visit www.myBlueprint.ca/Rainbow
2) Select our school from the dropdown menu under “New User” and click “Create Account”
3) Select your grade to start planning your future

http://www.edu.gov.on.ca/eng/parents/speced.html
SPECIAL PROGRAMS

Lockerby Composite School offers thirteen special programs for students.

Co-operative Education
Co-operative education is a unique educational process designed to promote skill development, individual career development and self awareness by means of integrating classroom theory with planned and supervised practical experience in a business, industry or community service organization. This program is available to students in Grades 11 and 12 only. Details regarding this program can be found on page 10.

Credit Recovery
A credit recovery program is available at Lockerby Composite to improve a student’s overall credit accumulation. The credit recovery program is developed to address a student’s individual academic concerns and promote student success.

Dual Credit Program
Students can earn up to four dual credits toward the 12 optional credits required for an OSSD in Grade 11 or 12. This is done by participating in apprenticeship training and postsecondary courses offered at Cambrian College. These courses count towards both their secondary school diploma and their postsecondary diploma or apprenticeship certification. This program is available to senior students. The Guidance Department can provide students with a list of courses available next year. See pages 12 to 15 for course offerings in this program.

e-Learning Program (including Summer e-Learning)
The Rainbow District School Board e-Learning program is available to all RDSB secondary students including those in the Laptop Learning offered through Lockerby’s STEP Program. Rainbow District School Board teachers deliver online courses using a learning management system that students can access at school and at home. Students can supplement their timetable with an online course, giving them greater flexibility and choice in completing their secondary school diploma. Students can take courses that are not available at their home school or not accessible due to scheduling conflicts. The online courses provide a new learning option for students – one that maximizes the use of technology. e-Learning courses are very interactive. A wide variety of technology is used to support online learning, including electronic whiteboards, chat rooms, e-mail, and discussion groups. Students also have access to this program in the summer (5 weeks). Contact your Guidance Department for the current list of e-Learning courses offered by Rainbow District School Board.

Enrichment
Enriched classes are offered within STEP. These courses are designed to challenge the students with special topics, independent study, and research projects. Students will be invited to enter these programs based on academic success. Students are encouraged to check the Lockerby Web Page under the heading of Student Services for a list of enrichment activities offered outside of a regular school day.

French Immersion Program
This program is intended for those students who have been in a Grade 8 French Immersion or French Language program. In order to receive a Rainbow District School Board of Education French Immersion Certificate, a student must complete ten (10) credits in French Immersion from Grades 9-12. Four of these credits must be a français taught in each grade level.

Ontario Youth Apprenticeship Program (OYAP)
Students must be 16 years of age to participate. This program is ideal for a student who wants to participate in a work experience placement in a skilled trade; develop trade related skills; begin training in a skilled occupation as a registered apprentice.

Continuous Intake Co-Op
This Program is for students who have left secondary school short a few credits and did not complete their Ontario Secondary School Diploma. A key factor to the success of this program is that students do a full day co-op/ OYAP experience and earn four secondary school credits. Students will be able to do their pre-placement activities outside of a regular classroom setting.

Special Status / Elite Athlete Program
This program is designed to suit the needs of exceptional students who are participating in out of school programs such as athletics or other special programs at the provincial, national, or international level. Students may see the Guidance Department for details.

Science & Technology Education Program (STEP)
STEP is a specialty program focussing on Science, Technology, Mathematics, and English. It is an excellent learning opportunity for talented students in preparation for careers and leadership in the areas of Science, Engineering, Mathematics, Medicine, Design, Business, and Computer Technology. STEP relies on integration of a student’s courses for its success, particularly in Grade 9. A detailed description of the programme is outlined on page 20.

Specialist High Skills Major – Mining and Health & Wellness
These two provincially recognized programs enable students to customize their high school experience to suit their interests and talents. It prepares them for successful transitions to apprenticeship training, college, university or employment while meeting the requirements of the Ontario Secondary School Diploma. These majors provide an engaging learning environment where students make informed career decisions and gain sector-identified credits, skills, and knowledge. The following pages will explain the requirements one must complete to achieve a SHSM Mining Certificate and SHSM Health & Wellness (Page 16 & 18)

Summer School Co-operative Education
This year, students in grade 11 or 12 can apply to take part in a summer Co-operative Education experience. Students in the Rainbow District School Board will be allowed to earn 1 or 2 credits toward their OSSD. Written assignments will be involved in this program. Pre-employment and integration activities will have to be completed before July and integrated activities throughout the placement. Preference will be given to students who are part of the Specialist High Skills Major Mining program and to students who only need 1 or 2 credits to graduate. Enrollment will be limited for this summer experience.


Co-operative Education and the Ontario Youth Apprenticeship Program (OYAP)

Students enrolled in the Co-operative Education can earn additional credits (including compulsory credits) linked to any subject area they have taken at school. They do this by participating in practical work experiences outside of the classroom supported by experts in our community. Students registered in the OYAP Program can gain credits in a variety of skilled trades and those students who demonstrate potential, may be registered with the Ministry of Training, Colleges and Universities as apprentices. The two credit cooperative education experience is also a requirement of the Specialist High Skills Major Program.

Students enrolled in Co-op or OYAP have unique responsibilities in and outside a regular classroom. Students must participate in the following:

**Pre-Placement**

There are two (2) weeks of Pre-Placement classes which is equivalent to one month of regular classes where students complete:
- Employability Skills Assignment
- Complete tasks linked to the on-line career planning program- Myblueprint
- NORCAT Safety Training – full WHMIS and Young Employee Safety Certification
- Resume and Cover Letters (YMCA Employment Services Template)
- Union test, pre placement test, along with numerous assignments to be completed in the classroom.

Students will also establish contact and visit their future employer to have their Work Education Agreements signed and explain the employer package provided.

**Integration Days**

There are six days during the semester students’ return to school to integrate their workplace experiences with classroom theory. A variety of assignments include:
- Journal Writing – students will be assigned questions in-class, in which they will reflect and write about their workplace experiences
- Workplace Harassment – video and worksheet for marks
- Self Image in the Workplace – video and worksheet for marks
- Communication Skills in the Workplace – video and worksheet for marks
- Various Computer Assignments in-class including ‘Stress in the Workplace’, Ontario Human Rights Code’, Ontario Employment Standards Act – all have accompanying assignments which must be completed in class.

Participation is expected in various activities that are held throughout the classes.

**Culminating Activity**

Students will complete a final activity where they detail their workplace experience, explain how they fulfilled their curriculum expectations, show what they learned from their placement, outline what career options exist, and explain how they interacted with the staff at their workplace. Students have the option of one of the following:
- A final take-home exam
- A presentation of 10-15 minutes (Power Point, Bristol Board, Video)
- Personal Portfolio where students chronicle all of their report cards, reference letters, certifications and reflections in a portfolio that helps make them ‘employment ready.’

**Workplace Experience**

Students are expected to exhibit stellar attendance at work. Two (2) credit students must accumulate 186 hours while four (4) credit students will compile 392 hours. More than three (3) days unjustified absence will result in a meeting with the Co-op teacher and possible removal from the program. Remember this is a job! Assessment will focus on a variety of factors such as, attitude, initiative, consistency, and proficiency at their job placement.
FEES

Student Activity Fees
Student activity fees are voluntary amounts that are used to supplement a student’s school experience through materials and activities. Lockerby’s activity fee is $20. This fee supplements the costs of:

- Locks
- Locker maintenance
- Co-curricular field trips
- Students’ Council spirit activities
- Student recognition activities
- Guest speakers
- Access to the Fitness Gym

Student Athletic Fees
Student athletic fees are amounts that are used to supplement a student’s co-curricular SDSSAA experiences. Lockerby’s fee is $45. This fee does not include the costs of tournaments, specialized equipment and facility rental charges that can be associated with each individual sport.

Enhanced Programming and Materials
Enhanced programming and materials are voluntary enrichments or upgrades to the curriculum or co-curricular activities beyond what is necessary to meet the learning expectations for a particular grade or course. For example, in some performance and production courses (for example: music, woodworking), students may wish to use a superior product or consumable than that provided by the school, in which case they may be asked to pay the additional cost of the upgrade. Where students choose not to access these enhanced programs or materials, alternatives must be available as essential course materials required to meet the learning expectations of the course or grade and are to be provided at no cost. Students/parents/guardians requiring financial assistance are encouraged to contact the school’s Guidance Department or school administration. Examples of courses at Lockerby where enhanced programming will apply:

- Food and Nutrition
- Outdoor Education
- Visual Arts

School Materials
A fee shall not be collected for the use of textbooks, workbooks and/or course materials. However, students/parents/guardians are required to pay for failing to return school materials entrusted to their care.

Field Trips
All field trips for which there is a cost to the student are optional to the course. Students choosing not to participate will have alternate assignments provided in order for the student to meet the course expectations.
### FALL 2016 DELIVERIES

**[CCDC] College Connection I [GLH4T]**
- 18 students
- Secondary Course Code: GLH4T
- College Course Code: SSC1015
- 1 credit
- Congregated class
- Tuesdays and Thursdays – 1:00-2:30 p.m.
- Delivered at Cambrian College
- Start date: September 27, 2016
- End date: January 26, 2017

**[DPDC] Exploring Digital Photography [AFI4T]**
- 15 students
- Secondary Course Code: AFI4T
- College Course Code: AFP1135
- 1 credit
- Congregated class
- Tuesdays and Thursdays - 12:30-2:30 p.m.
- Delivered at Cambrian College
- Start date: September 27, 2016
- End date: January 26, 2017

**[TBD] Personal Finance [YYY4X]**
- 15 students
- Secondary Course Code: YYY4X (temporary placeholder)
- College Course Code: BUS1008
- 1 credit
- Congregated class
- Tuesdays and Thursdays – 12:30-2:30 p.m.
- Delivered at Cambrian College
- Start date: September 27, 2016
- End date: January 26, 2017

**[FLDC] Exploring Physical Fitness and Leisure [PLB4T]**
- 15 students
- Secondary Course Code: PLB4T
- College Course Code: FLM1150
- 1 credit
- Congregated class
- Mondays and Wednesdays – 12:30-2:30 p.m.
- Delivered at Cambrian College
- Start date: September 27, 2016
- End date: January 26, 2017

### WINTER 2017 DELIVERIES

**[CCDC] College Connection I [GLH4T]**
- 18 students
- Secondary Course Code: GLH4T
- College Course Code: SSC1015
- 1 credit
- Congregated class
- Tuesdays and Thursdays – 1:00-2:30 p.m.
- Delivered at Cambrian College
- Start date: February 14, 2017
- End date: June 20, 2017

**[DPDC] Exploring Digital Photography [AFI4T]**
- 15 students
- Secondary Course Code: AFI4T
- College Course Code: AFP1135
- 1 credit
- Congregated class
- Mondays and Wednesdays - 12:30-2:30 p.m.
- Delivered at Cambrian College
- Start date: February 14, 2017
- End date: June 20, 2017

**[BUDC] Introduction to Business [BBA4T]**
- 15 students
- Secondary Course Code: BBA4T
- College Course Code: BUS1045
- 1 credit
- Congregated class
- Tuesdays and Thursdays – 12:30-2:30 p.m.
- Delivered at Cambrian College
- Start date: February 14, 2017
- End date: June 20, 2017

**[TBD] Introduction to Aboriginal Studies [YYY4X]**
- 15 students
- Secondary Course Code: YYY4X (temporary placeholder)
- College Course Code: SOC1007
- 1 credit
- Congregated class
- Mondays and Wednesdays – 12:30-2:30 p.m.
- Delivered at Cambrian College
- Start date: February 14, 2017
- End date: June 20, 2017
<table>
<thead>
<tr>
<th>FALL 2015 DELIVERIES</th>
<th>WINTER 2016 DELIVERIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ECDC] Exploring Early Childhood Education [TOQ4T]</td>
<td>[MFDC] Metal Fabricator (Fitter) and Welder-Level 1 Apprenticeship [TLA4Y]</td>
</tr>
<tr>
<td>15 students</td>
<td>14 students</td>
</tr>
<tr>
<td>Secondary Course Code: TOQ4T</td>
<td>Secondary Course Code: TLA4Y</td>
</tr>
<tr>
<td>College Course Code: ECE1140</td>
<td>College Course Code: 456A</td>
</tr>
<tr>
<td>1 credit</td>
<td>3 Credits</td>
</tr>
<tr>
<td>Congregated class</td>
<td>Congregated class</td>
</tr>
<tr>
<td>Mondays and Wednesdays – 12:30 – 2:30 p.m.</td>
<td>Monday to Friday - 12:30-4:30 p.m.</td>
</tr>
<tr>
<td>Delivered at Cambrian College</td>
<td>Delivered at Cambrian College</td>
</tr>
<tr>
<td>Start date: September 27, 2016</td>
<td>Start date: February 14, 2017</td>
</tr>
<tr>
<td>End date: December 15, 2016</td>
<td>End date: June 2, 2017</td>
</tr>
<tr>
<td>Placement for three weeks at end: June 5 – June 23</td>
<td></td>
</tr>
</tbody>
</table>

| [RMDC] Exploring Rock Music and Culture [AHL4T] | [CVDC] Commercial Vehicle & Heavy Equipment - Level 1 Apprenticeship [TTO4Y] |
| 15 students | 14 students |
| Secondary Course Code: AHL4T | Secondary Course Code: TTO4Y |
| College Course Code: MUS1009 | College Course Code: 421A |
| 1 credit | 2 credits |
| Congregated class | Congregated class |
| Mondays and Wednesdays – 12:30 – 2:30 p.m. | Monday to Friday – 12:30-4:30 p.m. |
| Delivered at Cambrian College | Delivered at Cambrian College |
| Start date: September 27, 2016 | Start date: February 14, 2017 |
| End date: January 26, 2017 | End date: May 26, 2017 |
| Placement for four weeks at end: May 29 –June 23 |

<p>| [PSDC] Exploring Personal Support Worker [HIC4T] | [GCDC] General Carpenter - Level 1 Apprenticeship [TSA4Y] |
| 6 students | 14 students |
| Secondary Course Code: HIC4T | Secondary Course Code: TSA4Y |
| College Course Code: PSW1111 | College Course Code: 403A |
| 1 credit | 2 credits |
| Top-up class | Congregated class |
| Wednesdays 12:30-3:30 p.m. | Monday to Friday – 12:30 – 4:30 p.m. |
| Delivered at Cambrian College | Delivered at Cambrian College |
| Start date: September 14, 2016 | Start date: February 14, 2017 |
| End date: December 14, 2016 | End date: June 20, 2017 |
| Break for 3 week co-op: May 15 – June 2 | Return date to college June 5, 2017 and here until June 20, 2017 |</p>
<table>
<thead>
<tr>
<th>FALL 2015 DELIVERIES</th>
<th>WINTER 2016 DELIVERIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>[CODC] Exploring Corrections [HCB4T]</td>
<td>[IHDC] Introduction to Health Sciences [PHJ4T]</td>
</tr>
<tr>
<td>- 5 students</td>
<td>- 18 students</td>
</tr>
<tr>
<td>- Secondary Course Code: HCB4T</td>
<td>- Secondary Course Code: PHJ4T</td>
</tr>
<tr>
<td>- College Course Code: CWP2310</td>
<td>- College Course Code: HSC1105</td>
</tr>
<tr>
<td>- 1 credit</td>
<td>- 1 credit</td>
</tr>
<tr>
<td>- Top-up class</td>
<td>- Congregated class</td>
</tr>
<tr>
<td>- Tuesdays 12:30-2:30 and Thursdays 12:30-1:30 p.m.</td>
<td>- Tuesdays and Thursdays – 12:30 – 2:30 p.m.</td>
</tr>
<tr>
<td>- Delivered at Cambrian College</td>
<td>- Delivered at Cambrian College</td>
</tr>
<tr>
<td>- Start date: September 15, 2016</td>
<td>- Start date: February 14, 2017</td>
</tr>
<tr>
<td>- End date: December 15, 2016</td>
<td>- End date: June 20, 2017</td>
</tr>
<tr>
<td>[ATDC] Applied Technology I [TAP4T]</td>
<td>[ETDC] Exploring Careers in Trades [TIB4T]</td>
</tr>
<tr>
<td>- 3 students</td>
<td>- 15 students</td>
</tr>
<tr>
<td>- Secondary Course Code: TAP4T</td>
<td>- Secondary Course Code: TIB4T</td>
</tr>
<tr>
<td>- College Course Code: PRT1000</td>
<td>- College Course Code: PRT1009</td>
</tr>
<tr>
<td>- 1 credit</td>
<td>- 1 credit</td>
</tr>
<tr>
<td>- Congregated class Team-Taught</td>
<td>- Congregated class</td>
</tr>
<tr>
<td>- 1 period/day x 3x/week</td>
<td>- Mondays and Wednesdays – 12:30-2:30 p.m.</td>
</tr>
<tr>
<td>- Delivered at Cambrian College</td>
<td>- Delivered at Cambrian College</td>
</tr>
<tr>
<td>- Start date: September 12, 2016</td>
<td>- Start date: February 14, 2017</td>
</tr>
<tr>
<td>- End date: December 14, 2016</td>
<td>- End date: June 20, 2017</td>
</tr>
<tr>
<td>[FPDC] Basic Food Preparation-Team-Taught-St. Charles College –CATHOLIC BOARD ONLY</td>
<td>[MNDC] Introduction to the Technology of Modern Mining [SVB4T]</td>
</tr>
<tr>
<td>- 15 students</td>
<td>- 15 students</td>
</tr>
<tr>
<td>- Secondary Course Code: HFC3E</td>
<td>- Secondary Course Code: SVB4T</td>
</tr>
<tr>
<td>- College Course Code: FSW0111</td>
<td>- College Course Code: MNG1100</td>
</tr>
<tr>
<td>- 1 credit</td>
<td>- 1 credit</td>
</tr>
<tr>
<td>- Congregated class Team-Taught</td>
<td>- Congregated class</td>
</tr>
<tr>
<td>- 1 period/day x 3x/week</td>
<td>- Tuesdays and Thursdays – 12:30-2:30 p.m.</td>
</tr>
<tr>
<td>- Delivered at St. Charles College</td>
<td>- Delivered at Cambrian College</td>
</tr>
<tr>
<td>- Start date: Week of September 19, 2016</td>
<td>- Start date: February 14, 2017</td>
</tr>
<tr>
<td>- End date: January 26, 2017</td>
<td>- End date: June 20, 2017</td>
</tr>
<tr>
<td>- 28 SHSM students</td>
<td>- 20 students</td>
</tr>
<tr>
<td>- Secondary Course Code: TGV3M or TGV4M</td>
<td>- Secondary Course Code: MBF3C</td>
</tr>
<tr>
<td>- College Course Code: JRN1005</td>
<td>- College Course Code: MTH1126</td>
</tr>
<tr>
<td>- 1 credit</td>
<td>- 1 credit</td>
</tr>
<tr>
<td>- Conregated class Team-taught</td>
<td>- Congregated class Team-Taught</td>
</tr>
<tr>
<td>- Times and days TBD</td>
<td>- Mondays, Wednesdays and Fridays 12:30 – 2:30 p.m.</td>
</tr>
<tr>
<td>- Delivered at Confederation Secondary School (SHSM)</td>
<td>- Delivered at Cambrian College</td>
</tr>
<tr>
<td>- Start date: Week of September 19, 2016</td>
<td>- Start date: February 14, 2017</td>
</tr>
<tr>
<td>- End date: January 26, 2017</td>
<td>- End date: June 20, 2017</td>
</tr>
</tbody>
</table>
## FALL 2015 DELIVERIES

<table>
<thead>
<tr>
<th>Program</th>
<th>Description</th>
</tr>
</thead>
</table>
- Secondary Course Code: ASM3O, TGJ3M, TGJ30  
- College Course Code: AFD1100  
- 1 credit  
- Congregated class Team-Taught  
- 1 period/day x 2x/week – 12:30-2:30 p.m.  
- Delivered at Espanola Secondary School  
- Start date: Week of September 19, 2016  
- End date: January 26, 2017 |

## WINTER 2016 DELIVERIES

<table>
<thead>
<tr>
<th>Program</th>
<th>Description</th>
</tr>
</thead>
</table>
| College Connection I – Espanola –RAINBOW BOARD ONLY [GLH4T] | - 16 students  
- Secondary Course Code: GLH4T  
- College Course Code: SSC1015  
- 1 credit  
- Congregated class  
- 1 period/day x 2x/week – 12:30-2:30 p.m.  
- Delivered at Espanola Secondary School  
- Start date: Week of February 13, 2017  
- End date: June 20, 2017 |

<table>
<thead>
<tr>
<th>Program</th>
<th>Description</th>
</tr>
</thead>
</table>
- Secondary Course Code: AEB4T  
- College Course Code: AFD1100  
- 1 credit  
- Congregated class  
- 1 period/day x 2x/week – 12:30-2:30 p.m.  
- Delivered in M’Chigeeng  
- Start date: Week of February 13, 2017  
- End date: June 20, 2017 |

<table>
<thead>
<tr>
<th>Program</th>
<th>Description</th>
</tr>
</thead>
</table>
| [CCLC] College Connection I-Manitoulin–RAINBOW BOARD ONLY [GLH4T] | - 12 students  
- Secondary Course Code: GLH4T  
- College Course Code: SSC1015  
- 1 credit  
- Congregated class  
- 1 period/day x 2x/week – 12:30-2:30 p.m.  
- Delivered in M’Chigeeng  
- Start date: Week of February 13, 2017  
- End date: June 20, 2017 |

For information on any of the dual credit programs, please contact:

**Rainbow District School Board**  
Linda Urisk, Program Coordinator, Learning to 18  
(705)523-3308, extension 8205; uriskl@rainbowschools.ca

**Sudbury Catholic District School Board**  
Paul Stevens, College Dual Credit Link Teacher  
(705)673-5620; paul.stevens@sudburycatholicschools.ca

**Cambrian College**  
ChantaleRoy, SCWI Student Success Coordinator  
(705)566-8101, ext. 7646; chantale.roy@cambriancollege.ca
# Specialist High Skills Major Health and Wellness Certificate

## Requirement Chart

<table>
<thead>
<tr>
<th>Course Category</th>
<th>Grade 11</th>
<th>Grade 12</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SHSM Major Subjects</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TWO CREDITS IN GRADE 11</td>
<td>SBI3U (Biology)</td>
<td>HHS4C (Families in Canada)</td>
</tr>
<tr>
<td>TWO CREDITS IN GRADE 12</td>
<td>TPJ3M (Health Care)</td>
<td>SBI4U (Biology)</td>
</tr>
<tr>
<td></td>
<td>HPC3O (Raising Healthy Children)</td>
<td>TPJ4M (Health Care)</td>
</tr>
<tr>
<td></td>
<td>PPL3O (Physical Education)</td>
<td>PPL4O (Physical Education)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>English - ONE CREDIT REQUIRED</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Gr 11 or 12 Math</strong></td>
<td>MBF3C (Foundations)</td>
<td>MHF4U (Advanced Functions)</td>
</tr>
<tr>
<td>ONE CREDIT REQUIRED</td>
<td>MCF3M (Functions and Applications)</td>
<td>MCV4U (Calculus &amp; Vectors)</td>
</tr>
<tr>
<td></td>
<td>MCR3U (Functions)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MEL3E (Essential Math)</td>
<td></td>
</tr>
<tr>
<td><strong>Gr 11 or 12 Science</strong></td>
<td>SBI3C (Biology)</td>
<td>SCH4U (Chemistry)</td>
</tr>
<tr>
<td>ONE CREDIT REQUIRED</td>
<td>SCH3U (Chemistry)</td>
<td>SPH4U (Physics)</td>
</tr>
<tr>
<td></td>
<td>SPH3U (Physics)</td>
<td></td>
</tr>
</tbody>
</table>

## Certificates: 4 Compulsory Certificates (time will be provided in class)

- Cardio-Pulmonary Resuscitation (CPR)
- Standard First Aid
- Infection Control
- WHMIS

Must complete the following 3 electives

- Specialized Care – Respiratory, Diabetes, Dementia
- Medical Terminology i.e. toxicology
- Customer Service

## Essential Co-op Placement: Students must do a 2-credit placement (in-school co-op, summer co-op)

- Develop: Essential Skills, Work Habits and Use of Ontario Skills Passport
- Provide evidence of a work plan use.

## Reach Ahead and Experiential Learning Activities (i.e. fieldtrips)

- Guest Speakers (Various from Sudbury Health Unit, CCAC, Laurentian University, NEORCC, HRSRH, Chiropractor, Pediatrician)
- Tour of NOSM
- Laurentian University Experiences (School of Nursing and Biology/Chemistry Department)
- HRSRH PARTY Program

Students earning a SHSM Certificate receive an Ontario Secondary School Diploma embossed with a red seal. They will also receive a SHSM record that identifies achievement in each of the required components.

Specialist High Skills Major – Health and Wellness

Personal Information: Please print neatly and provide the information below.

Legal Name: ___________________________  Surname  First Name  Middle Initial

Current School: ___________________________________________  Student ID #: ___________________________

Home Address: ___________________________________________

City/Town: ___________________________________________  Postal Code: ___________________________

Home Telephone: ___________________________  Cell: ___________________________  E-Mail: ___________________________

Which pathway do you plan to pursue? (please check one)

❑ Apprenticeship Training  ❑ Workplace  ❑ College  ❑ University

Are you currently enrolled as an OYAP student?  ❑ Yes  ❑ No

Have you taken or are you currently enrolled in any Dual Credit courses?  ❑ Yes  ❑ No

If yes, please provide details:  Course Code ___________________________  Course Name ___________________________

Currently enrolled:  ❑ Yes  ❑ No  Completed:  ❑ Yes  ❑ No  If yes, provide date of completion: ___________________________

Student’s Signature ___________________________________________

Parent/Guardian Signature ___________________________________________

Print name (Student) ___________________________________________

Print name (Parent/Guardian) ___________________________________________

Date ___________________________________________

Once you have completed the Registration Form, please submit it to the Guidance Department at your school for processing. A member of the SHSM team will be in contact with you shortly to set up your file and get you started on your journey to success.

In accordance with the Municipal Freedom of Information and Protection of Privacy Act, personal information is being collected under the authority of the Education Act and will be used to register students in a Specialist High Skills Major. For more information, please contact the Principal.

Congratulations on choosing an exciting future!
Specialist High Skills Major Mining Certificate

Requirement Chart

<table>
<thead>
<tr>
<th>Course Category</th>
<th>Grade 11</th>
<th>Grade 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHSM Major Subjects</td>
<td>SGM38 (Introduction to Mining)</td>
<td>SCH4U (Chemistry)</td>
</tr>
<tr>
<td>FOUR CREDITS REQUIRED (Any combination but one must be from grade 11 and one from grade 12)</td>
<td>SPH3U (Physics)</td>
<td>SPH4U/SPH4C (Physics)</td>
</tr>
<tr>
<td></td>
<td>TTJ3C (Transportation Technology)</td>
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<td>TDJ3M (Technological Design)</td>
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<td>TCJ3C (Construction Technology)</td>
<td>TCJ4C (Construction Technology)</td>
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<td>English</td>
<td>SBI3U/SBI3C (Biology)</td>
<td>CGR4M (Environment &amp; Resource Management)</td>
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<tr>
<td>ONE CREDIT REQUIRED</td>
<td>SCH3U (Chemistry)</td>
<td>SCH4C (Chemistry)</td>
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<tr>
<td>Math</td>
<td>MBF3C (Foundations Math)</td>
<td>MAP4C (Foundations Math)</td>
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<tr>
<td>ONE CREDIT REQUIRED</td>
<td>MEL3E (Essential Math)</td>
<td>MCT4C (Tech Math)</td>
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<td>MHF4U (Advanced Functions)</td>
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<tr>
<td>Gr 11 or 12 Science or Canadian &amp; World Studies</td>
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<td>ONE CREDIT REQUIRED</td>
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Certificates: 4 Compulsory Certificates (no cost to students)

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<th></th>
<th>Cardio-Pulmonary Resuscitation (CPR)</th>
<th>Standard First Aid</th>
<th>General Safety Awareness (GSA)</th>
<th>WHMIS</th>
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Must complete 3 electives from the list below

- Certified GPS
- Fall Protection
- Lock Out & Tagging
- Personal Protective Equipment
- Surface Miner & Underground Orientation
- Electrical Safety
- Confined Space Awareness
- Lift Truck Safety

Essential Co-op Placement - Students must do a 2-credit placement (in-school co-op, summer co-op)

- Develop: Essential Skills, Work Habits and Use of Ontario Skills Passport
- Provide evidence of a work plan use.

Reach Ahead and Experiential Learning Activities (i.e. fieldtrips)

- Professional Conferences
- Underground Tours
- Smelting / Mill Tour
- Cambrian College and Laurentian University Experiences

➤ Students earning a SHSM Certificate receive an Ontario Secondary School Diploma embossed with a red seal. They will also receive a SHSM record that identifies achievement in each of the required components.

http://www.rainbowschools.ca/programs/SHSM/Overview.php
Specialist High Skills Major – Mining

Personal Information: Please print neatly and provide the information below.

Legal Name: ___________________________ Surname ___________________________ First Name ___________________________ Middle Initial __________

Current School: ___________________________________________ Student ID #: ___________________________

Home Address: ___________________________________________

City/Town: ___________________________________________ Postal Code: ___________________________

Home Telephone: ___________________________ Cell: ___________________________ E-Mail: ___________________________

Which pathway do you plan to pursue? (please check one)

❑ Apprenticeship Training  ❑ Workplace  ❑ College  ❑ University

Are you currently enrolled as an OYAP student?  ❑ Yes  ❑ No

Have you taken or are you currently enrolled in any Dual Credit courses?  ❑ Yes  ❑ No

If yes, please provide details: Course Code ___________________________ Course Name ___________________________

Currently enrolled:  ❑ Yes  ❑ No

Completed:  ❑ Yes  ❑ No

If yes, provide date of completion: ___________________________

Student’s Signature ____________________________________

Parent/Guardian Signature ___________________________

Print name (Student) ___________________________

Print name (Parent/Guardian) ___________________________

Date ___________________________

Once you have completed the Registration Form, please submit it to the Guidance Department at your school for processing. A member of the SHSM team will be in contact with you shortly to set up your file and get you started on your journey to success.

In accordance with the Municipal Freedom of Information and Protection of Privacy Act, personal information is being collected under the authority of the Education Act and will be used to register students in a Specialist High Skills Major. For more information, please contact the Principal.

Congratulations on choosing an exciting future!
Science and Technology Education Program (STEP)

STEP is a specialty program focusing on Science, Technology, Mathematics, Humanities, and English. It is an opportunity for academically motivated students to learn in an unique way as they prepare themselves for careers in the areas of Science, Engineering, Design, Medicine, Business, and Computer Technology.

STEP relies on the integration of Science and Technology courses for its success. Our program emphasizes 'hands-on' learning as opposed to a traditional textbook approach. Students will design, build, assemble, create and manipulate. The teacher’s role is that of a facilitator: assisting the student with learning and exploration as opposed to simply providing direct instruction. As a result, in addition to the student acquiring the required knowledge as outlined in the curriculum, the student also acquires a variety of transferable skills.

STEP continues in Grade 10, 11 and 12 with a designated curriculum. Upon the successful completion of this curriculum students receive a STEP certificate. This certificate and the student’s ongoing portfolio of work may be used in the selection of students for particular programs at the post-secondary levels, such as in engineering and the graphic arts.

Students in STEP are expected:

- to maintain an overall 70% average in each semester of high school;
- to submit all assignments on time; and
- to participate in projects.

STEP has the following objectives:

- to encourage an interest in Science, Technology and how they interrelate in the student’s life;
- to give students the opportunity to explore their curriculum in non-traditional ways through the use of inquiry based learning;
- to introduce students to careers related to Science and Technology;
- to assist students in developing their problem solving skills and thinking skills by analyzing, correlating, comparing, experimenting and synthesizing; and
- to develop proper methods of communication and collaboration through written and electronic media.

To achieve these objectives, students in STEP are offered the opportunities to experience:

- traditional science fair projects
- environmental group actions
- enhanced competency with various forms of computer communication
- mentorships with professionals in our community
- the benefits from partnerships with local post-secondary institutions.

STEP students will, if outside the Lockerby area, be eligible for school bus transportation according to the policies of the Rainbow District School Board.

STEP LAPTOP Learning Option

Students who select the Laptop Learning Option for their STEP courses will follow the same curricula as in the STEP non-laptop courses. However, the way in which the course content is presented is significantly different:

- Students will be provided with their own high-speed Internet connection in all e-labs;
- Laptops will be used to supplement traditional methods of note taking;
- Many courses offer online courseware in lieu of textbooks or to supplement textbooks;
- Students will be provided with server space to store backup files;
- Students will be granted access to specialty software designed to augment learning;
- Students will have more frequent access to Internet and Intranet learning resources;
- Teachers take advantage of multimedia technology to deliver curriculum;
- Students will use email to communicate more extensively with teachers;
- Students will have opportunities to take online tests and quizzes.

The Laptop Learning Option provides students with the most modern and progressive form of curriculum delivery. Lockerby is the acknowledged leader of laptop learning of all public schools in Ontario.

STEP Certificate Criteria

- Grade 9 - SNC1DT/L (Science) TTI1OT/L (Technology)
- Grade 10 - SNC2DT/L (Science) TDJ2OT/L (Technology)
- Grade 11 - TDJ3MT/L (Technical Design) or TPJ3MT (Health Care) or TDV3MT (Interior Design) and at least two of SCH3UT, SCH3UL, SPH3UT, SPH3UL, SBI3UT, SBI3UL, SBI3UZ, SCH3UZ, SPH3UZ
- Grade 12 - Any one of SBI4UT, SBI4UL, SBI4UZ, SCH4UT, SCH4UL, SCH4UZ, SPH4UT, SPH4UL

A STEP Certificate will be issued to graduating students upon the successful completion of these five compulsory STEP courses plus at least three other STEP courses. One must be taken in Grade 12.
STEP Courses for 2016-2017

In 2012-2013, the senior courses in the STEP program were revised. The flow charts for technology and science will allow students to easily see the prerequisites for their senior courses.

TIJ10T / TIJ10L - Exploring Technologies
This course enables students to explore and develop technological knowledge and skills in a variety of areas including web page development, woodworking, auto mechanics, electrical applications, and drafting (AutoCAD). Students will apply the design process to design and build a variety of projects such as solar cookers, balsa bridges, and airplanes. Emphasis will be placed on linking projects to scientific concepts as this course is a mandatory course for students enrolled in the STEP program.

TDJ20L - Tech Design
This course provides students with opportunities to apply a design process in a variety of new ways. Students will further develop their drafting (AutoCAD) and woodworking skills while learning new skills in graphics/photo editing and film making. This course will prepare students for other technological course options in grade 11 while linking projects to scientific concepts where possible. This course will fulfill the grade 10 technological component for students in the STEP program.

TDJ3M - Technological Design (Engineering)
Students will be focused on designing and building solutions to a number of problems that relate to the construction and engineering field. Design projects will compliment the Engineering Physics Course and focus on these key areas: Robotics, Surveying and Road Construction, Deck Design and Construction, Renewable Energy, Mine Design, Catapult Design and Construction, and Crane Design and Construction.

TPJ3M - Health Care
Students enrolled in grade 11 health care will examine the major body systems, organ donation, spread of infections, age-specific health topics, clinical skills and career options. While covering this content students will also have opportunities to investigate health care topics of interest to them. This is accomplished with the use of a variety of tools such as a nursing manikins and guest speakers from the community. This course is an excellent opportunity for students to practice skills that could be useful in a future career in a health care field and explore careers of interest to them. This course would prepare students for grade 12 Health Care.
TDV3M - Interior Design
In this activity based course, students use the elements and principles of design to remodel interior and exterior spaces. Specialized software helps to create virtual models. Students will visit the shop on a regular basis to extend one’s knowledge of building structures, accessories and finishes. An academic design portfolio will be produced using a variety of media.

SPH3UZ – Physics for Engineers
Engineering is applied science that has engineers using scientific principles to solve real world problems. The new grade eleven physics offering will introduce students to the principles of engineering through the format of SPH 3U. All units will have a special focus on engineering and community members will serve as guest speakers who will introduce students to the various disciplines of engineering.

SB13UZ – Medical Biology
Students will complete a contextualized course on medical topics to cover the required curriculum for grade 11 biology. While covering the topics of organ systems students will have an opportunity to work on case-based problems to examine the normal function of an organ and diagnose problems that may arise. They will also have an opportunity to go on related field trips to places such as the Northern Ontario School of Medicine and Laurentian University. This course will introduce students to a possible future in a health care field while also allowing them to be prepared for the grade 12 biology options.

SCH3UZ – Environmental Chemistry
Environmental chemistry is the study of chemical reactions that take place in nature, with a focus on aquatic, atmospheric and land based ecosystems. The new grade 11 chemistry offering will introduce students to the principles of environmental chemistry through the format of SCH 3U. Students will have the opportunity to analyze and interpret regional chemical findings and seek ways to reduce the impact of human activities on the natural environment.

SB14UZ - Forensics Biology
This course provides students with the opportunity for in-depth study of the concepts and processes that occur in biological systems. Students will study theory and conduct investigations in the areas of biochemistry, metabolic processes, molecular genetics, homeostasis, and population dynamics. Emphasis will be placed on the achievement of detailed knowledge and the refinement of skills needed for further study in various branches of the life sciences and related fields. Grade 12 STEP biology will have an emphasis on real life scenarios and interactive forensic activities, using innovative activities.

SCH4UZ - Forensics Chemistry
This course enables students to deepen their understanding of chemistry through the study of organic chemistry, the structure and properties of matter, energy changes and rates of reaction, equilibrium in chemical systems, and electrochemistry. Students will further develop their problem-solving and investigation skills as they investigate chemical processes, and will refine their ability to communicate scientific information. Emphasis will be placed on the importance of chemistry in everyday life and on evaluating the impact of chemical technology on the environment. Grade 12 STEP chemistry will have an emphasis on real life scenarios and interactive forensic activities, using innovative activities.

To learn more about Lockerby Composite School and its unique programs check the school website at www.lockerby.net
ARTS

Instrumental Music

AMI2OB

Senior Concert Band
This course emphasizes the creation and performance of music on a traditional concert band instrument at a level consistent with previous experience. Students will develop musical literacy skills by using the creative and critical analysis processes in composition, performance, and a range of reflective and analytical activities. Students will develop their understanding of musical conventions, practices, and terminology and apply the elements of music in a range of activities. They will also explore the function of music in society with reference to the self, communities, and cultures. Note - This credit is achieved through full year co-curricular participation in concert band which takes place outside the normally scheduled school day.

Prerequisite: AMU1O0 / AMI1OB / AMU2O0 or approval of instructor

AMU200

Music (Open)
This course emphasizes the creation and performance of music at a level consistent with previous experience. Students will develop musical literacy skills by using the creative and critical analysis processes in composition, performance, and a range of reflective and analytical activities. Students will develop their understanding of musical conventions, practices, and terminology and apply the elements of music in a range of activities. They will also explore the function of music in society with reference to the self, communities, and cultures.

Prerequisite: AMI1OB

AMG3O0

Music - Guitar (Open)
This course emphasizes performance of music at an intermediate level that strikes a balance between challenge and skill. Student learning will include participating in creative activities and listening perceptively. Students will also be required to develop a thorough understanding of the language of music, including the elements, terminology and history. This course focuses on the development of basic guitar technique.

Prerequisite: AMI1OB

AMI3MB

Senior Band (College/University)
This course develops students’ musical literacy through performance and the preparation and presentation of music productions. Students will perform works on a traditional concert band instrument at a level consistent with previous experience. Independently and collaboratively, students will use current technology and the creative and critical analysis processes to plan, produce, present, and market musical productions. Students will respond to, reflect on, and analyse music from various genres and periods, and they will develop skills transferable to other aspects of their life and their careers. Note - This credit will be achieved through full year participation in co-curricular concert band scheduled outside the regular school day.

Prerequisite: AMU1O0 / AMI1OB / AMU2O0 / AMI2OB or approval of instructor

AMU3M0

Music (College/University)
This course provides students with opportunities to develop their musical literacy through the creation, appreciation, analysis, and performance of music on a traditional concert band instrument, including traditional, commercial, and art music. Students will apply the creative process when performing appropriate technical exercises and repertoire and will employ the critical analysis processes when reflecting on, responding to, and analysing live and recorded performances. Students will consider the function of music in society and the impact of music on individuals and communities. They will explore how to apply skills developed in music to their life and careers.

Prerequisite: AMU1O0 / AMI1OB / AMU2O0

AMI4MB

Senior Band (College/University)
This course develops students’ musical literacy through performance and the preparation and presentation of music productions. Students will perform works on a traditional concert band instrument at a level consistent with previous experience. Independently and collaboratively, students will use current technology and the creative and critical analysis processes to plan, produce, present, and market musical productions. Students will respond to, reflect on, and analyse music from various genres and periods, and they will develop skills transferable to other aspects of their life and their careers. Students will perform technical exercises and appropriate repertoire, complete detailed creative activities, and analyse and evaluate live and recorded performances. Note - This credit will be achieved through full year participation in co-curricular concert band scheduled outside the regular school day.

Prerequisite: AMU3MB / AMI3MB / AMH3MB or approval of instructor

AMU4M0

Music (College/University)
This course enables students to enhance their musical literacy through the creation, appreciation, analysis, and performance of music on a traditional concert band instrument. Students will perform traditional, commercial, and art music, and will respond with insight to live and recorded performances. Students will enhance their understanding of the function of music in society and the impact of music on themselves and various communities and cultures. Students will analyse how to apply skills developed in music to their life and careers.

Prerequisite: AMU3MB / AMI3MB / AMH3MB
VISUAL ARTS - Visual Arts classes are enhanced classes.

**AVI2O0**  
Visual Arts (Open)  
This course enables students to develop their skills in producing and presenting art by introducing them to new ideas, materials, and processes for artistic exploration and experimentation. Students will apply the elements and principles of design when exploring the creative process. Students will use the critical analysis process to reflect on and interpret art within a personal, contemporary, and historical context.

**AVI3M0**  
Visual Arts (College/University)  
This course focuses on studio activities in the visual arts, such as drawing, painting, sculpture, photography, printmaking, collage, and/or multimedia art. Students will use the creative process to create art works that reflect a wide range of subjects and will evaluate works using the critical analysis process. Students will also explore works of art within a personal, contemporary, historical, and cultural context.  
Prerequisite: AVI1O1 or AVI2O1

**AVI4M0**  
Visual Arts (College/University)  
This course focuses on enabling students to refine their use of the creative process when creating and presenting two- and three-dimensional art works using a variety of traditional and emerging media and technologies. Students will use the critical analysis process to deconstruct art works and explore connections between art and society. The studio program enables students to explore a range of materials, processes, and techniques that can be applied in their own art production. Students will also make connections between various works of art in personal, contemporary, historical, and cultural contexts.  
Prerequisite: AVI3M0

**AWI3O0**  
Fashion and Textile Design (Open)  
This course focuses on studio activities in fashion and textile design as well as one or more of the other visual arts such as drawing, painting, sculpture, photography, printmaking, collage and/or multimedia art. This course explores art skills, fabric art, and fashion design, while offering students a hands-on approach to learning. Students will study fundamental art and drawing skills, and gain experience in drawing the human figure and designing their own fashion line. Students will use the creative process to create art works that reflect a wide range of subjects and will evaluate works using the critical analysis process. A variety of art projects will focus on fashion design and the design industry. Students will also be exposed to several fabric art techniques such as silk screen, batik, and beginner sewing projects. Students will also explore works of art within a personal, contemporary, historical and cultural context. The history aspect of the course will focus on contemporary trends and designers.  
Prerequisite: AVI100 and AVI200

**AWM4M0**  
Drawing and Painting (College/University)  
This course focuses on the refinement of students’ skills and knowledge in visual arts. Students will analyse art forms, use theories of art in analysing and producing art, and increase their understanding of stylistic changes in modern and contemporary Western art, Canadian (including Native Canadian) art, and art forms from various parts of the world. Students will produce a body of work demonstrating a personal approach. Due to the independent nature of this course, a meeting is required with the teacher prior to the course being scheduled.
CHC2D0/CHC2DL  
Canadian History Since World War I (Academic/Laptop)  
This course explores social, economic, and political developments and events and their impact on the lives of different groups in Canada since 1914. Students will explore interactions between various communities in Canada as well as contributions of individuals and groups to Canadian heritage and identity. Students will develop their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating key issues and events in Canadian history since 1914.

CHC2P0  
Canadian History Since World War I (Applied)  
This course focuses on the social context of historical developments and events and how they have affected the lives of people in Canada since 1914. Students will explore interactions between various communities in Canada as well as contributions of individuals and groups to Canadian heritage and identity. Students will develop their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating the continuing relevance of historical developments and how they have helped shape communities in present-day Canada.

CHV2O0/CHV2OL (.5 credit)  
Civics and Citizenship (Open/Laptop Option)  
This half credit course explores rights and responsibilities associated with being an active citizen in a democratic society. Students will explore issues of civic importance such as healthy schools, community planning, environmental responsibility, and the influence of social media, while developing their understanding of the role of civic engagement and of political processes in the local, national, and/or global community. Students will apply the concepts of political thinking and the political inquiry process to investigate, and express informed opinions about, a range of political issues and developments that are both of significance in today’s world and of personal interest to them.

CGG3O0  
Travel and Tourism: A Geographic Perspective (Open)  
This course focuses on issues related to travel and tourism within and between various regions of the world. Students will investigate unique environmental, sociocultural, economic, and political characteristics of selected world regions. They will explore travel patterns and trends as well as tensions related to tourism, and will predict future tourism destinations. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate the impact of the travel industry on natural environments and human communities.

Prerequisite: CGC1D0/CGC1P0
CANADIAN AND WORLD STUDIES - Continued

CHW3M0/CHW3ML  World History to the End of the Fifteenth Century (College/University)
This course explores the history of various societies around the world, from earliest times to around 1500 CE. Students will examine life in and the legacy of various ancient and pre-modern societies throughout the world, including those in, Africa, Asia, Europe, and the Americas. Students will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating social, political, and economic structures and historical forces at work in various societies and in different historical eras.
Prerequisite: CHC2D0/CHC2P0

CHT3O0  World History Since 1900: Global and Regional Interactions (Open)
This course focuses on major developments in world history from 1900 to the present. Students will explore the causes and consequences of global and regional conflicts as well as responses to social, economic, and political developments in various countries and regions. Students will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating historical developments and events, including those that continue to affect people in various parts of the world.
Prerequisite: CHC2D0/CHC2P0

CLU3M0/CLU3ML  Understanding Canadian Law (College/University)
This course explores Canadian law, with a focus on legal issues that are relevant to the lives of people in Canada. Students will gain an understanding of rights and freedoms in Canada, our legal system, and family, contract, employment, tort, and criminal law. Students will use case studies and apply the concepts of legal thinking and the legal inquiry process to develop legal reasoning skills and to formulate and communicate informed interpretations of legal issues, and they will develop the ability to advocate for new laws.
Prerequisite: CHC2D0/CHC2P0

CGW4U0/CGW4UL  World Issues: A Geographic Analysis (University)
This course looks at the global challenge of creating a more sustainable and equitable world. Students will explore a range of issues involving environmental, economic, social, and geopolitical interrelationships, and will examine governmental policies related to these issues. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate these complex issues, including their impact on natural and human communities around the world.
Prerequisite: Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities.

CGR4M0  The Environment and Resource Management (College/University)
This course explores interactions between the natural and human environment, with a particular focus on the impact of human activity on various ecosystems. Students will explore resource management and sustainability practices, as well as related government policy and international protocols. Applying the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, students will investigate the relationship between people and the natural environment and will propose approaches for developing more sustainable relationships, including environmentally responsible actions that support stewardship.
Prerequisite: Any university, university/college, or college preparation course in Canadian and world studies, English, or social sciences and humanities.

CHY4U0  World History since the Fifteenth Century (University)
This course traces major developments and events in world history since approximately 1450. Students will explore social, economic, and political changes, the historical roots of contemporary issues, and the role of conflict and cooperation in global interrelationships. They will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, as they investigate key issues and assess societal progress or decline in world history.
Prerequisite: Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities.

CLN4U0  Canadian and International Law (University)
This course explores a range of contemporary legal issues and how they are addressed in both Canadian and international law. Students will develop their understanding of the principles of Canadian and international law when exploring rights and freedoms within the context of topics such as religion, security, cyberspace, immigration, crimes against humanity, and environmental protection. Students will apply the concepts of legal thinking and the legal inquiry process when investigating these issues in both Canadian and international contexts, and they will develop legal reasoning skills and an understanding of conflict resolution in the area of international law.
Prerequisite: Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities.

ENGLISH

ENG2D0
This course is designed to extend the range of oral communication, reading, writing, and media literacy skills that students need for success in their secondary school academic programs and in their daily lives. Students will analyse literary texts from contemporary and historical periods, interpret and evaluate informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the selective use of strategies that contribute to effective communication. This course is intended to prepare students for the compulsory Grade 11 university or college preparation course.
Prerequisite: ENG1D0/ENG1P0
ENGLISH - continued

ENG2P0  English (Applied)
This course is designed to extend the range of oral communication, reading, writing, and media literacy skills that students need for success in secondary school and daily life. Students will study and create a variety of informational, literary, and graphic texts. An important focus will be on the consolidation of strategies and processes that help students interpret texts and communicate clearly and effectively. This course is intended to prepare students for the compulsory Grade 11 college or workplace preparation course.

Prerequisite: ENG1D0/ENG1P0

ENG3C0  English (College)
This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will study the content, form, and style of a variety of informational and graphic texts, as well as reading texts from Canada and other countries, and create oral, written, and media texts in a variety of forms for practical and academic purposes. An important focus will be on using language with precision and clarity and incorporating stylistic devices appropriately and effectively. The course is intended to prepare students for the compulsory Grade 12 college preparation course.

Prerequisite: ENG2P0

ENG3E0  English (Workplace)
This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in the workplace and in daily life. Students will study the content, form, and style of a variety of contemporary informational, graphic, and literary texts; and create oral, written, and media texts in a variety of forms for practical purposes. An important focus will be on using language clearly and accurately in a variety of formal and informal contexts. The course is intended to prepare students for the compulsory Grade 12 workplace preparation course.

Prerequisite: ENG2P0

ENG3U0  English (College)
This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyse challenging literary texts from various periods, countries, and cultures, as well as a range of informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on using language with precision and clarity and incorporating stylistic devices appropriately and effectively. The course is intended to prepare students for the compulsory Grade 12 university or college preparation course.

Prerequisite: ENG2D0

EPS3O0  Presentation and Speaking Skills (Open)
This course emphasizes the knowledge and skills required to plan and make effective presentations and to speak effectively in both formal and informal contexts, using such forms as reports, speeches, debates, panel discussions, storytelling, recitations, interviews, and multimedia presentations. Students will research and analyse the content and characteristics of convincing speeches and the techniques of effective speakers; design and rehearse presentations for a variety of purposes and audiences; select and use visual and technological aids to enhance their message; and assess the effectiveness of their own and others’ presentations.

Prerequisite: English, Grade 10, Academic or Applied

ENG4C0  English (College)
This course emphasizes the consolidation of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyse a variety of informational and graphic texts, as well as literary texts from various countries and cultures, and create oral, written, and media texts in a variety of forms for practical and academic purposes. An important focus will be on using language clearly and accurately in a variety of formal and informal contexts, using such forms as reports, speeches, debates, panel discussions, storytelling, recitations, interviews, and multimedia presentations. Students will research and analyse the content and characteristics of convincing speeches and the techniques of effective speakers; design and rehearse presentations for a variety of purposes and audiences; select and use visual and technological aids to enhance their message; and assess the effectiveness of their own and others’ presentations.

Prerequisite: ENG3C0

ENG4E0  English (Workplace)
This course emphasizes the consolidation of literacy, communication, and critical and creative thinking skills necessary for success in the workplace and in daily life. Students will analyse informational, graphic, and literary texts and create oral, written, and media texts in a variety of forms for workplace-related and practical purposes. An important focus will be on using language accurately and organizing ideas and information coherently. The course is intended to prepare students for the workplace and active citizenship.

Prerequisite: ENG3E0

ENG4U0  English (University)
This course emphasizes the consolidation of the literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyse a range of challenging literary texts from various periods, countries, and cultures; interpret and evaluate informational and graphic texts; and create oral, written, and media texts in a variety of forms. An important focus will be on using academic language coherently and confidently, selecting the reading strategies best suited to particular texts and particular purposes for reading, and developing greater control in writing. The course is intended to prepare students for university, college, or the workplace.

Prerequisite: ENG3U0

ETS4U0  Studies in Literature (University)
This course is for students with a special interest in literature and literary criticism. The course may focus on themes, genres, time periods, or countries. Students will analyse a range of forms and stylistic elements of literary texts and respond personally, critically, and creatively to them. They will also assess critical interpretations, write analytical essays, and complete an independent study project.

Prerequisite: ENG3U0
ENGLISH - continued

EWC4U0 Writers Craft (University)
This course emphasizes knowledge and skills related to the craft of writing. Students will analyse models of effective writing; use a workshop approach to produce a range of works; identify and use techniques required for specialized forms of writing; and identify effective ways to improve the quality of their writing. They will also complete a major paper as part of a creative or analytical independent study project and investigate opportunities for publication and for writing careers.
Prerequisite: ENG3U0

OLC4O0 Ontario Secondary School Literacy Course
This course can be taken in combination with ENG4E0. It is designed to help students acquire and demonstrate the cross-curricular literacy skills that are evaluated by the Ontario Secondary School Literacy Test. Students who complete the course successfully will meet the provincial literacy requirement for graduation. Students will read a variety of informational, narrative and graphic texts and will produce a variety of forms of writing, including summaries, information paragraphs, opinion pieces, and news reports. This course is for students who have been eligible to write the OSSLT at least twice (including deferred), and have been unsuccessful at least once. These students are eligible to take this one credit course to achieve both a Grade 12 English credit, of the Group One additional compulsory credit, and their literacy credential for graduation.

FRENCH

FSF2D0 Core French (Academic)
This course provides opportunities for students to communicate in French about personally relevant, familiar, and academic topics in real-life situations with increasing independence. Students will exchange information, ideas, and opinions with others in guided and increasingly spontaneous spoken interactions. Students will continue to develop their language knowledge and skills through the selective use of strategies that contribute to effective communication. They will also increase their understanding and appreciation of diverse French-speaking communities, and will continue to develop the skills necessary to become life-long language learners.
Prerequisite: FSF1D0

FSF3U0 Core French (University)
This course offers students extended opportunities to speak and interact in real-life situations in French with greater independence. Students will develop their creative and critical thinking skills through responding to and exploring a variety of oral and written texts. They will continue to broaden their understanding and appreciation of diverse French-speaking communities and to develop the skills necessary for life-long language learning.
Prerequisite: FSF2D0

FSF4U0 Core French (University)
This course provides extensive opportunities for students to speak and interact in French independently. Students will apply language-learning strategies in a wide variety of real-life situations, and will continue to develop their creative and critical thinking skills through responding to and interacting with a variety of oral and written texts. Students will also continue to enrich their understanding and appreciation of diverse French-speaking communities and to develop the skills necessary for life-long language learning.
Prerequisite: FSF3U0

FRENCH IMMERSION

FIF2DI French Immersion (Academic)
Français
This course provides students with extensive opportunities to communicate, interact, and think critically and creatively in French. Students will use a variety of language-learning strategies in listening, speaking, reading, and writing, and will respond to and interact with print, oral, visual, and electronic texts. Students will develop their knowledge of the French language through the study of contemporary and historically well-known French European literature. They will also continue to increase their understanding and appreciation of diverse French-speaking communities and to develop the skills necessary to become life-long language learners.
Prerequisite: FIF1DI

FIF3UI French Immersion (University)
Français
This course provides opportunities for students to consolidate the communication skills required to speak and interact with increasing confidence and accuracy in French in a variety of academic and social contexts. Students will apply language-learning strategies while exploring a variety of concrete and abstract topics, and will increase their knowledge of the language through the study of French literature from around the world. They will also continue to deepen their understanding and appreciation of diverse French-speaking communities and to develop the skills necessary to become life-long language learners.
Prerequisite: FIF2DI

FIF4UI French Immersion (University)
Français
This course provides students with extensive opportunities to communicate, interact, and think critically and creatively in French. Students will consolidate language-learning strategies and apply them while communicating about concrete and abstract topics, and will independently respond to and interact with a variety of oral and written texts. Students will study a selection of French literature from the Middle Ages to the present. They will also continue to enrich their understanding and appreciation of diverse French-speaking communities and to develop the skills necessary to become life-long language learners.
Prerequisite: FIF3UI
FRENCH IMMERSION - Continued

CHV2OI (.5 credit)  
**Civics and Citizenship (Open-Immersion/Laptop Option)**  
Étude de la citoyenneté

This course explores rights and responsibilities associated with being an active citizen in a democratic society. Students will explore issues of civic importance such as healthy schools, community planning, environmental responsibility, and the influence of social media, while developing their understanding of the role of civic engagement and of political processes in the local, national, and/or global community. Students will apply the concepts of political thinking and the political inquiry process to investigate, and express informed opinions about, a range of political issues and developments that are both of significance in today’s world and of personal interest to them.

GLC2OI (.5 credit)  
**Career Studies (Open Immersion Laptop)**  
Étude des carrières

This half credit course teaches students how to develop and achieve personal goals in education, work and contribute to their communities. Student learning will include assessing their own knowledge, skills, characteristics and investigating economic trends, workplace organization, work opportunities, and ways to search for work. The course explores post-secondary learning options, prepares students for community-based learning, and helps them build the capabilities needed for managing work and life transitions. Students will design action plans for pursuing their goals.

CHC2DI  
**Canadian History Since World War I (Academic/Immersion/ Laptop Option)**  
Histoire du Canada

This course explores social, economic, and political developments and events and their impact on the lives of different groups in Canada since 1914. Students will examine the role of conflict and cooperation in Canadian society, Canada’s evolving role within the global community, and the impact of various individuals, organizations, and events on Canadian identity, citizenship, and heritage. They will develop their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating key issues and events in Canadian history since 1914.

PPL2OI  
**Co-ed Healthy Active Living Education (STEP LAPTOP – Academic)**  
Éducation physique et santé

This course emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy active living. Student learning will include the application of movement principles to refine skills; participation in a variety of activities that enhance personal competence, fitness and health; examination of issues related to healthy sexuality, healthy eating, substance use and abuse; and the use of informed decision-making, conflict resolution and social skills in making personal choices. At Lockerby, this course will be taught using the laptop computer. Instruction, reports, notes, tests and evaluation exercises will be delivered using the laptop, as well as providing access to healthy and active living resources on the World Wide Web.

Prerequisite: CGC1DI

PPL3OI  
**Physical and Health Education (Open)**  
Éducation physique et santé

This immersion course focuses on the development of a healthy lifestyle and participation in a variety of enjoyable physical activities that have the potential to engage students’ interest throughout their lives. Students will be encouraged to develop personal competence in a variety of movement skills and will be given opportunities to practise goal-setting, decision-making, social and interpersonal skills. Students will also study the components of healthy relationships, reproductive health, mental health and personal safety.

PPL4OI  
**Physical and Health Education (Open)**  
Éducation physique et santé

This immersion course focuses on the development of a healthy lifestyle and participation in a variety of enjoyable physical activities that have the potential to engage students’ interest throughout their lives. Students will be encouraged to develop personal competence in a variety of movement skills and will be given opportunities to practise goal-setting, decision-making, social and interpersonal skills. Students will also study the components of healthy relationships, reproductive health, mental health and personal safety.

TDJ2OI  
**Technological Design (Open - Immersion)**  
Technologique Design (Open - Immersion)

This French Immersion course provides students with opportunities to apply a design process to meet a variety of technological challenges. Students will research projects, create designs, build models and/or prototypes, and assess products and/or processes using appropriate tools, techniques, and strategies. Student projects may include designs for homes, vehicles, bridges, robotic arms, clothing, or other products. Students will develop an awareness of environmental and societal issues related to technological design, and will learn about secondary and postsecondary education and training leading to careers in the field.

Prerequisite: TJ110I
GUIDANCE & CAREER EDUCATION

GLS100/GLE100/GLE200  
Skills for Success in Secondary School (Open)
This course focuses on learning strategies to help students become better, more independent learners. Students will learn how to develop and apply literacy and numeracy skills, personal management skills, and interpersonal and teamwork skills to improve their learning and achievement in school, the workplace, and the community. The course helps students build confidence and motivation to pursue opportunities for success in secondary school and beyond.
Prerequisite: For GLS10 – None
For GLE10 and GLE20 – Recommendation of principal

GLC200/GLC20L (.5 credit)  
Career Studies /Laptop (Open)
This course teaches students how to develop and achieve personal goals for future learning, work, and community involvement. Students will assess their interests, skills, and characteristics and investigate current economic and workplace trends, work opportunities, and ways to search for work. The course explores postsecondary learning and career options, prepares students for managing work and life transitions, and helps students focus on their goals through the development of a career plan. For students choosing the laptop option this course will integrate laptop computers with course expectations.

GPP3O0  
Leadership and Peer Support (Open)
This course prepares students to act in leadership and peer support roles. They will design and implement a plan for contributing to their school and/or community; develop skills in communication, interpersonal relations, teamwork, and conflict management; and apply those skills in leadership and/or peer support roles – for example, as a student council member or a peer tutor. Students will examine group dynamics and learn the value of diversity within groups and communities.

GLS4O0/GLE4O0/GLE3O0  
Skills for Success After Secondary School (Open)
This course improves students’ learning and personal-management skills, preparing them to make successful transitions to work, training, and/or postsecondary education destinations. Students will assess their learning abilities and use literacy, numeracy, and research skills and personal-management techniques to maximize their learning. Students will investigate trends and resources to support their postsecondary employment, training, and/or education choices and develop a plan to help them meet their learning and career goals.
Prerequisite: For GLS4O – None
For GLE4O and GLE3O – Recommendation of principal

COOP  
Co-operative Education (Open)
Co-operative education provides the reality and relevancy to education by developing the “whole person” through the combination of classroom learning with practical experience. Prerequisites for co-op include that students be 16 years of age and have a minimum of 20 credits. Interested students are asked to do the following: a) select the course (COOP) on the option sheet, b) fill out a co-operative credit application form, c) have the parental consent form signed, d) be prepared to be interviewed by the in-school co-op education teacher and guidance counsellor. Upon completion of this course, students receive 2, 3 or 4 credits.
Prerequisite: A related senior course

Summer Co-operative Education
Opportunities are being extended to grade 11/12 students to earn 1 or 2 credits toward their OSSD. This planned learning experience integrates classroom theory and learning experiences in a workplace setting. This experience will enable students to apply and refine the knowledge and skills acquired in a related curriculum course.

OYAP  
Ontario Youth Apprenticeship Program
The Ontario Youth Apprenticeship Program (OYAP) provides grade 11 and 12 students with the opportunity to participate in a work experience placement in a skilled trade while working toward the completion of a grade 12 diploma. Students who demonstrate potential may have the opportunity to register officially as apprentices.

Students who register under the OYAP option will earn co-operative education credits while participating in either a half-day or a full day work experience placement alongside a qualified journeyman in a skilled trade. Placements can be in either the motive, service, industrial or construction sector in restricted, compulsory or voluntary skilled trades.

OYAP is designed to:
- Introduce students to careers in a variety of skilled trades
- Help students develop practical hands on experience in a skilled trade of their choice
- Provide students with the opportunity to register officially as youth apprentices while still in secondary school
- Enrich school courses through related trade experience
- Connect students to the world of work
- Enhance opportunities for employment in the skilled trades after graduation

OYAP provides students with an accelerated and viable career path.
GUIDANCE & CAREER EDUCATION – Continued

OYAP Eligibility Criteria
Students who may be eligible for the OYAP option:

- Are at least 16 years of age
- Have completed grade 10 (at least 16 credits)
- Have senior credits in the skilled trade of their interest
- Enjoy learning by doing
- Are recommended by the guidance counsellor and the co-op teacher
- Demonstrate a career focus in a skilled trade, a strong interest in learning a trade, aptitude, maturity and commitment

For further information, please contact your guidance office.

HEALTH & PHYSICAL EDUCATION

Daily participation is essential for meeting the outcomes of these courses.

PPL2OF/PPL2OM
This course emphasizes regular participation in a variety of enjoyable physical activities that promote life long healthy active living. Student learning will include the application of movement principles to refine skills; participation in a variety of activities that enhance personal competence, fitness, and health; examination of issues related to healthy sexuality, healthy eating, substance use and abuse; and the use of informed decision-making, conflict resolution, and social skills in making personal choices.

PPL3OF/PPL3OM
This course focuses on the development of a healthy lifestyle and participation in a variety of enjoyable physical activities that have the potential to engage students’ interest throughout their lives. Students will be encouraged to develop personal competence in a variety of movement skills and will be given opportunities to practice goal-setting, decision-making, social and interpersonal skills. Students will also study the components of healthy relationships, reproductive health, mental health, and personal safety.

PPL4OF/PPL4OM
This course focuses on the development of a personalized approach to healthy active living through participation in a variety of sports and recreational activities that have the potential to engage student interest throughout their lives. Students will develop and implement personal physical fitness plans. In addition, they will be given opportunities to refine their decision-making, conflict resolution, and interpersonal skills, with a view to enhancing their mental health and their relationships with others.

PAD3O0
This is a program of outdoor activities ranging from curling and alpine skiing to canoeing and quince building. It is designed to develop confidence and to build interest and skills in lifetime activities. This course is an enhanced program and there will be a fee payable within the first two weeks of this program. This fee is non refundable even if students do not participate in the canoe trip. Due to the range of activities in the program, lunch time and after school time, may be required. Throughout the semester, students prepare for a final 2-3 day canoe trip. Enrolment will be limited to 21 students.

PAF4OM
This course is designed to provide multiple fitness and health opportunities to healthy, active, male students in grade 12. The following vigorous activities will be included (weight training programs using F.I.T.T. principles, fitness testing and personalized training programs, aerobic walking, jogging, rope jumping, yoga, pilates, weight and circuit training, as well as a number of other fun physical fitness activities. Outside resources such as guest speakers and access to local fitness facility will be utilized to increase the effectiveness of this course. Teachers will guide students to make individual decisions about their personal fitness programs and to develop positive attitudes and behaviours toward proper nutrition, stress, and personal safety and fitness activities. A variety of self-assessment activities will be used so that students can design and implement a personal wellness plan.

PAF3OF/PAF4OF
This course is designed to provide multiple fitness and health opportunities to healthy, active, female students in grade 11 or 12. The following vigorous activities will be included (aerobic walking, jogging, aerobics, rope jumping, yoga, pilates, weight and circuit training, as well as a number of other fun physical fitness activities. Outside resources such as guest speakers and access to local fitness facility will be utilized to increase the effectiveness of this course. Teachers will guide students to make individual decisions about their personal fitness programs and to develop positive attitudes and behaviours toward proper nutrition, stress, and personal safety and fitness activities. A variety of self-assessment activities will be used so that students can design and implement a personal wellness plan.
HEALTH & PHYSICAL EDUCATION - Continued

PAI3OF  Yoga - Females (Open)
This Yoga course is designed for healthy, active female students who are interested in becoming empowered. The class will be a judgment free zone where each yogini is respected, nurtured and challenged. While practicing a variety of poses, students will develop a positive body image, increase their strength, flexibility, and balance while reducing stress in their everyday lives. Each student is encouraged to have their own mat, water bottle and tea cup.

PAI4OF  Yoga - Females (Open)
Yoga 12 introduces students to the ancient tradition of Yoga in its various forms and styles. With its vast capacity to bring vibrant health to body, mind and emotion, the intention is for students to develop a lifelong personal practice of yoga. Students will participate in various activities, including the physical practice, personal reflection, partner exercises, meditation group, discussion and classroom theory. Each student is encouraged to have their own mat, water bottle and tea cup.

PAL4OW  Basketball Activities – Females & Males (Open)
This course emphasizes regular participation in the sport of basketball which promotes lifelong healthy active living. Student learning will include the application of movement principles to refine skills; participation in a variety of activities that enhance personal competence, fitness and health. The emphasis of this course is on basketball skill development, coaching, conditioning and officiating. Opportunities may present themselves to obtain certification in basketball officiating level I and/or coaching level I. Students must be in Grade 11 or 12.

PSE4U0  Exercise Science (University)
This course focuses on the study of human movement (bones and muscles) and systems, biomechanics, factors, and principles involved in human development. Students will learn about the effects of physical activity on health and performance, the evolution of physical activity and sports, and the factors that influence an individual’s participation in physical activity. The course prepares students for university programs in physical education, kinesiology, anatomy, recreation, and sports administration.
Prerequisite: Any Grade 11 University or University/College Preparation or course in science or any grade 11 or 12 course in health or physical education.

HUMANITIES

HFN2O0  Food and Nutrition (Open)
This course focuses on guidelines for making nutritious food choices. Students will investigate factors that influence food choices, including beliefs, attitudes, current trends, traditional eating patterns, food marketing strategies, and individual needs. Students will also explore the environmental impact of a variety of food choices at the local and global level. The course provides students with opportunities to develop food preparation skills and introduces them to the use of social science research methods in the area of food and nutrition.

HFC3M  Food and Culture (College/University)
This course focuses on the flavours, aromas, cooking techniques, food and cultural traditions of world cuisines. Students will explore the origins of and developments in diverse food traditions. They will demonstrate the ability to cook with ingredients and equipment from a variety of cultures, compare food related etiquette in many countries and cultures, and explain how Canadian food choices and traditions have been influenced by other cultures. Students will develop practical skills and apply social science research methods while investigating foods and food practices from around the world.

HPC3O0  Raising Healthy Children (Open)
This course focuses on the skills and knowledge parents, guardians, and caregivers need, with particular emphasis on maternal health, pregnancy, birth, and the early years of human development (birth to six years old). Through study and practical experience, students will learn how to meet the developmental needs of young children, communicate with them, and effectively guide their early behaviour. Students will develop their research skills through investigations related to caregiving and child rearing.

HHS4U0  Families in Canada (University)
This course enables students to draw on sociological, psychological, and anthropological theories and research to analyse the development of individuals, intimate relationships, and family and parent-child relationships. Students will focus on issues and challenges facing individuals and families in Canada's diverse society. They will develop analytical tools that enable them to assess various factors affecting families and to consider policies and practices intended to support families in Canada. They will develop the investigative skills required to conduct and communicate the results of research on individuals, intimate relationships, and parent-child relationships.
Prerequisite: Any university/college or college preparation course in social sciences and humanities, English or Canadian and World Studies.
Pre-requisite Chart for Mathematics, Grades 9 – 12

This chart maps out all the courses in the discipline and shows the links between courses and the minimum prerequisites for them. It does not attempt to depict all possible movements from course to course.

Note: In some schools it may be necessary to take the prerequisite course Advanced Functions, concurrently with Calculus and Vectors.

On the next page, the summary Mathematics: Links to Post Secondary Destinations is a helpful guide provided by the Ministry of Education to aid students and their parents in knowing the math requirements needed for a specific career path.
UNIVERSITY DESTINATIONS:

- **Grade 12 U Calculus and Vectors MCV4U**
  University Mathematics, Engineering, Economics, Science, Computer Science, some Business Programs and Education – Secondary Mathematics

- **Grade 12 U Advanced Functions MHF4U**
  University Kinesiology, Social Sciences, Programs and some Mathematics, Health Science, some Business Interdisciplinary Programs and Education – Elementary Teaching

- **Grade 12 U Mathematics of Data Management MDM4U**
  Some University Applied Linguistics, Social Sciences, Child and Youth Studies, Psychology, Accounting, Finance, Business, Forestry, Science, Arts

COLLEGE DESTINATIONS:

- **Grade 12 C Mathematics for College Technology MCT4C**
  College Biotechnology, Engineering Technology (e.g. Chemical, Computer), some Technician Programs

- **Grade 12 C Foundations for College Mathematics MAP4C**
  General Arts and Science, Business, Human Resources, some Technician and Health Science Programs

WORKPLACE DESTINATIONS:

- **Grade 12 C Mathematics for Work and Everyday Life MEL4E**
  Steamfitters,Pipefitters, Sheet Metal Worker, Cabinetmakers, Carpenters, Foundry Workers, Construction Millwrights and some Mechanics
Mathematics Decision Guide – Advice to Students

Many apprentice, college and university programs require grade 12 mathematics, but the math course(s) one needs varies greatly in each area of study. Students must choose their math requirements carefully and keep all their possible post secondary plans in mind. Before deciding which math course(s) to take, one must check www.ontariocolleges.ca for college information. Then, go to the individual college web site to ensure you get up-to-date information. For university requirements, visit http://www.electronicinfo.ca for the specific mathematics prerequisites needed for one’s program.

Students are encouraged to talk to their math teacher about their plans in mathematics. As well, students are strongly advised to refer to the mathematics course descriptions in their Course Selection Handbook. The prerequisite chart following this page is a helpful guide. The following information is a brief summary.

- If your destination is a university program that requires Calculus and Vectors (MCV4U), you will need to take Advanced Functions (MHF4U) either as a prerequisite (recommended) or concurrently with MCV4U.
- If your destination is a university program that requires Advanced Functions (MHF4U), you will need to take Functions (MCR3U) in grade 11 or follow the alternative pathway of MCF3M plus MCT4C.
- If your destination is a university program that requires Mathematics of Data Management (MDM4U), you need to take either MCR3U or MCF3M in grade 11.
- If your destination is a college program that requires Mathematics for College Technology (MCT4C), you will need to take MCF3M in grade 11.
- If your destination is a college program that requires Foundations for College Mathematics (MAP4C), you will need to take Foundations for College Mathematics (MBF3C) in grade 11.
- The grade 11 Mathematics for Everyday Life (MEL3E) is designed to equip students with the knowledge and skills they need to meet the expectations of employers, if they plan to enter the workplace directly after graduation, or the requirements for admission to certain apprenticeship or other training programs.
- Mathematics for Work and Everyday Life (MEL3E) is the prerequisite for Mathematics for Work and Everyday Life (MEL4E).

Mathematics

MFM2P0
Foundations of Mathematics (Applied)
This course enables students to consolidate their understanding of linear relations and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and hands-on activities. Students will develop and graph equations in analytic geometry; solve and apply linear systems, using real-life examples; and explore and interpret graphs of quadratic relations. Students will investigate similar triangles, the trigonometry of right triangles, and the measurement of three-dimensional figures. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.
Prerequisite: MFM1P0/MPM10

MPM2D0/MPM2DL
Principles of Mathematics (Academic)
This course enables students to broaden their understanding of relationships and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and abstract reasoning. Students will explore quadratic relations and their applications; solve and apply linear systems; verify properties of geometric figures using analytic geometry; and investigate the trigonometry of right and acute triangles. Students will reason mathematically and communicate their thinking as they solve multi-step problems. For students choosing the laptop option, this course will integrate laptop computers with course expectations.
Prerequisite: MPM10/MPM1DE

MPM2DE
Principles of Mathematics (Enriched)
This course enables students to broaden their understanding of relationships and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and abstract reasoning. Students will explore quadratic relations and their applications; solve and apply linear systems; verify properties of geometric figures using analytic geometry; and investigate the trigonometry of right and acute triangles. Students will reason mathematically and communicate their thinking as they solve multi-step problems. Students enrolled in this course will prepare for and write a Canadian mathematics contest. Students in this course should enjoy doing mathematics and solving problems.
Prerequisite: MPM1D0/MPM1DE

MBF3C0
Foundations for College Mathematics (College)
This course enables students to broaden their understanding of mathematics as a problem-solving tool in the real world. Students will extend their understanding of quadratic relations; investigate situations involving exponential growth; solve problems involving compound interest; solve financial problems connected with vehicle ownership; and develop their ability to reason by collecting, analysing, and evaluating data involving one variable; connect probability and statistics; and solve problems in geometry and trigonometry. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.
Prerequisite: MFM2P0
MATHMATICS – Continued

MCF3M0 Functions and Applications (College/University)
This course introduces basic features of the function by extending students’ experiences with quadratic relations. It focuses on quadratic, trigonometric, and exponential functions and their use in modelling real-world situations. Students will represent functions numerically, graphically, and algebraically; simplify expressions; solve equations; and solve problems relating to financial and trigonometric applications. Students will reason mathematically and communicate their thinking as they solve multi-step problems.
Prerequisite: MPM2D0/MPM2D0/MFM2P0

MCR3U0 Functions (University)
This course introduces the mathematical concept of the function by extending students’ experiences with linear and quadratic relations. Students will investigate properties of discrete and continuous functions, including trigonometric and exponential functions; represent functions numerically, graphically, and algebraically; solve problems involving applications of functions; investigate inverse functions; and develop facility in equivalent algebraic expressions. Students will reason mathematically and communicate their thinking as they solve multi-step problems.
Prerequisite: MPM2D0/MPM2DE

MEL3E0 Mathematics for Work and Everyday Life (Workplace)
This course enables students to broaden their understanding of mathematics as it is applied in the workplace and daily life. Students will solve problems associated with earning money, paying taxes, and making purchases; apply calculations of simple and compound interest in saving, investing, and borrowing; and calculate the costs of transportation and travel in a variety of situations. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.
Prerequisite: MPM2D0/MPM2DE/MFM2P0 or a ministry-approved locally developed Grade 10 mathematics course

MAP4C0 Foundations for College Mathematics, Grade 12 (College)
This course enables students to broaden their understanding of real-world applications of mathematics. Students will analyse data using statistical methods; solve problems involving applications of geometry and trigonometry; solve financial problems connected with annuities, budgets, and renting or owning accommodation; simplify expressions; and solve equations. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for college programs in areas such as business, health sciences, and human services, and for certain skilled trades.
Prerequisite: MBF3C0/MCF3M0

MCT4C0 Mathematics for College Technology, Grade 12 (College)
This course enables students to extend their knowledge of functions. Students will investigate and apply properties of polynomial, exponential, and trigonometric functions; continue to represent functions numerically, graphically, and algebraically; develop facility in simplifying expressions and solving equations; and solve problems that address applications of algebra, trigonometry, vectors, and geometry. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for a variety of college technology programs.
Prerequisite: MCF3M0/MCR3U0

MCV4U0 Calculus and Vectors, Grade 12 (University)
This course builds on students’ previous experience with functions and their developing understanding of rates of change. Students will solve problems involving geometric and algebraic representations of vectors, and representations of lines and planes in three-dimensional space; broaden their understanding of rates of change to include the derivatives of polynomial, rational, exponential, radical and sinusoidal functions; and apply these concepts and skills to the modelling of real-world relationships. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended for students who plan to study mathematics in university and who may choose to pursue careers in fields such as physics and engineering.
Prerequisite: MCF3M0

Note: in some schools, it may be necessary to take the prerequisite course concurrently with MCV4U

MEL4E0 Mathematics for Work and Everyday Life, Grade 12 (Workplace)
This course enables students to broaden their understanding of mathematics as it is applied in the workplace and daily life. Students will investigate questions involving the use of statistics; apply the concept of probability to solve problems involving familiar situations; investigate accommodation costs and create household budgets; use proportional reasoning; estimate and measure; and apply geometric concepts to create designs. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.
Prerequisite: MEL3E0

MDM4U0 Mathematics of Data Management, Grade 12 (University)
This course broadens students’ understanding of mathematics as it relates to managing data. Students will apply methods for organizing large amounts of information; solve problems involving probability and statistics; and carry out a culminating project that integrates statistical concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. Students planning to enter university programs in business, the social sciences, and the humanities will find this course of particular interest.
Prerequisite: MCF3M0 or MCR3U0

MHF4U0 Advanced Functions, Grade 12 (University)
This course extends students’ experience with functions. Students will investigate the properties of polynomial, rational, logarithmic, and trigonometric functions; develop techniques for combining functions; broaden their understanding of rates of change; and develop facility in applying these concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended both for students who plan to study mathematics in university and for those wishing to consolidate their understanding of mathematics before proceeding to any one of a variety of university programs.
Prerequisite: MCR3U0 or MCT4C0
SCIENCE

SNC2D0  Science (Academic)
This course enables students to enhance their understanding of concepts in biology, chemistry, earth and space science, and physics, and of the interrelationships between science, technology, society, and the environment. Students are also given opportunities to further develop their scientific investigation skills. Students will plan and conduct investigations and develop their understanding of scientific theories related to sustainable ecosystems; chemical reactions, with a particular focus on acid–base reactions; forces that affect climate and climate change; and the interaction of light and matter.
Prerequisite: SNC1D0 or SNC1P0

SNC2P0  Science (Applied)
This course enables students to develop a deeper understanding of concepts in biology, chemistry, earth and space science, and physics, and to apply their knowledge of science in real-world situations. Students are given opportunities to develop further practical skills in scientific investigation. Students will plan and conduct investigations into everyday problems and issues related to ecosystems; chemical reactions; factors affecting climate change; and the interaction of light and matter.
Prerequisite: SNC1P0/ SNC1D0

SBI3C0  Biology (College)
This course focuses on the processes that occur in biological systems. Students will learn concepts and theories as they conduct investigations in the areas of cellular biology, microbiology, genetics, the anatomy of mammals, and the structure of plants and their role in the natural environment. Emphasis will be placed on the practical application of concepts, and on the skills needed for further study in various branches of the life sciences and related fields.
Prerequisite: SNC2P0/SNC2D0

SBI3U0  Biology (University)
This course furthers students’ understanding of the processes that occur in biological systems. Students will study theory and conduct investigations in the areas of biodiversity; evolution; genetic processes; the structure and function of animals; and the anatomy, growth, and function of plants. The course focuses on the theoretical aspects of the topics under study, and helps students refine skills related to scientific investigation.
Prerequisite: SNC2D0

SCH3U0  Chemistry (University)
This course enables students to deepen their understanding of chemistry through the study of the properties of chemicals and chemical bonds; chemical reactions and quantitative relationships in those reactions; solutions and solubility; and atmospheric chemistry and the behaviour of gases. Students will further develop their analytical skills and investigate the qualitative and quantitative properties of matter, as well as the impact of some common chemical reactions on society and the environment.
Prerequisite: SNC2D0

SPH3U0  Physics (University)
This course develops students’ understanding of the basic concepts of physics. Students will explore kinematics with an emphasis on linear motion; different kinds of forces; energy transformations; the properties of mechanical waves and sound; and electricity and magnetism. They will enhance their scientific investigation skills as they test laws of physics. In addition, they will analyse the interrelationships between physics and technology, and consider the impact of technological applications of physics on society and the environment.
Prerequisite: SNC2D0

SBI4U0  Biology (University)
This course provides students with the opportunity for in-depth study of the concepts and processes that occur in biological systems. Students will study theory and conduct investigations in the areas of biochemistry, metabolic processes, molecular genetics, homeostasis, and population dynamics. Emphasis will be placed on the achievement of detailed knowledge and the refinement of skills needed for further study in various branches of the life sciences and related fields.
Prerequisite: SBI3U0 (SCH3U0 is highly recommended)

SCH4C0  Chemistry (College)
This course enables students to develop an understanding of chemistry through the study of matter and qualitative analysis, organic chemistry, electrochemistry, chemical calculations, and chemistry as it relates to the quality of the environment. Students will use a variety of laboratory techniques, develop skills in data collection and scientific analysis, and communicate scientific information using appropriate terminology. Emphasis will be placed on the role of chemistry in daily life and the effects of technological applications and processes on society and the environment.
Prerequisite: SNC2 Courses

SCH4U0  Chemistry (University)
This course enables students to deepen their understanding of chemistry through the study of organic chemistry, the structure and properties of matter, energy changes and rates of reaction, equilibrium in chemical systems, and electrochemistry. Students will further develop their problem-solving and investigation skills as they investigate chemical processes, and will refine their ability to communicate scientific information. Emphasis will be placed on the importance of chemistry in everyday life and on evaluating the impact of chemical technology on the environment.
Prerequisite: SCH3U0
SCIENCE – Continued

SPH4C0  
This course develops students’ understanding of the basic concepts of physics. Students will explore these concepts with respect to motion; mechanical, electrical, electromagnetic, energy transformation, hydraulic, and pneumatic systems; and the operation of commonly used tools and machines. Students will develop their scientific investigation skills as they test laws of physics and solve both assigned problems and those emerging from their investigations. Students will also consider the impact of technological applications of physics on society and the environment. This course is crucial for many college programs.  
Prerequisite: SNC2 Courses

SPH4U0  
This course enables students to deepen their understanding of physics concepts and theories. Students will continue their exploration of energy transformations and the forces that affect motion, and will investigate electrical, gravitational, and magnetic fields and electromagnetic radiation. Students will also explore the wave nature of light, quantum mechanics, and special relativity. They will further develop their scientific investigation skills, learning, for example, how to analyze, qualitatively and quantitatively, data relating to a variety of physics concepts and principles. Students will also consider the impact of technological applications of physics on society and the environment.  
Prerequisite: SPH3U0

STEP/STEP LAPTOP – GRADE 10

ENG2DT/ENG2DL  
English (Academic – STEP/STEP LAPTOP)  
This course is designed to extend the range of oral communication, reading, writing, and media literacy skills that students need for success in their secondary school academic programs and in their daily lives. Students will analyze literary texts from contemporary and historical periods, interpret and evaluate informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the selective use of strategies that contribute to effective communication. This course is intended to prepare students for the compulsory Grade 11 university or college preparation course. For students choosing the laptop option, this course will integrate laptop computers with course expectations.  
Prerequisite: ENG1DT/ENG1DL

SNC2DT/SNC2DL  
Science (Academic – STEP/STEP LAPTOP)  
This course enables students to enhance their understanding of concepts in biology, chemistry, earth and space science, and physics, and of the interrelationships between science, technology, society, and the environment. Students are also given opportunities to further develop their scientific investigation skills. Students will plan and conduct investigations and develop their understanding of scientific theories related to sustainable ecosystems; chemical reactions, with a particular focus on acid–base reactions; forces that affect climate and climate change; and the interaction of light and matter. The content of the STEP course is presented in an integrated manner in conjunction with TDJ2OT/L, grade 10 Technological Design. For students choosing the laptop option, this course will integrate laptop computers with course expectations.  
Prerequisite: SNC1DT/SNC1DL

TDJ2OT/TDJ2OL  
Technological Design (STEP/STEP LAPTOP – Open)  
This course provides students with opportunities to apply a design process to meet a variety of technological challenges. Students will research projects, create designs, build models and/or prototypes, and assess products and/or processes using appropriate tools, techniques, and strategies. Student projects may include designs for homes, vehicles, bridges, robotic arms, clothing, or other products. Students will develop an awareness of environmental and societal issues related to technological design, and learn about secondary and postsecondary education and training leading to careers in the field. This course will engage students in hands-on learning through a variety of tech subjects including woodworking, automotive, drafting, and communications.  
Prerequisite: TTI1OT/TTI1OL

TDJ2OI  
Technological Design (Open Immersion)  
This French immersion course provides students with opportunities to apply a design process to meet a variety of technological challenges. Students will research projects, create designs, build models and/or prototypes, and assess products and/or processes using appropriate tools, techniques, and strategies. Student projects may include designs for homes, vehicles, bridges, robotic arms, clothing, or other products. Students will develop an awareness of environmental and societal issues related to technological design, and will learn about secondary and postsecondary education and training leading to careers in the field.  
Prerequisite: TTI1OI

PPL2OL  
Co-ed Healthy Active Living Education (STEP LAPTOP – Academic)  
This course emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy active living. Student learning will include the application of movement principles to refine skills; participation in a variety of activities that enhance personal competence, fitness and health; examination of issues related to healthy sexuality, healthy eating, substance use and abuse; and the use of informed decision-making, conflict resolution and social skills in making personal choices. At Lockerby, this course will be taught using the laptop computer. Instruction, reports, notes, tests and evaluation exercises will be delivered using the laptop, as well as providing access to healthy and active living resources on the World Wide Web.
ENG3UL
This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyse challenging literary texts from various periods, countries, and cultures, as well as a range of informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on using language with precision and clarity and incorporating stylistic devices appropriately and effectively. The course is intended to prepare students for the compulsory Grade 12 university or college preparation course. For students choosing the laptop option, this course will integrate laptop computers with course expectations.
Prerequisite: ENG2D0/ENG2DL

SB13UZ
Medicine & Health Care - Biology (STEP/STEP LAPTOP – University)
This course further students’ understanding of the processes that occur in biological systems. Students will study theory and conduct investigations in the areas of biodiversity; evolution; genetic processes; the structure and function of animals; and the anatomy, growth, and function of plants. The course focuses on the theoretical aspects of the topics under study, and helps students refine skills related to scientific investigation. This course is recommended for STEP students. For students choosing the laptop option, this course will integrate laptop computers with course expectations.
Prerequisite: SNC2DT/SNC2DL

SB13UT/SB13UL
Biology (STEP/STEP LAPTOP – University)
This course further students’ understanding of the processes that occur in biological systems. Students will study theory and conduct investigations in the areas of biodiversity; evolution; genetic processes; the structure and function of animals; and the anatomy, growth, and function of plants. The course focuses on the theoretical aspects of the topics under study, and helps students refine skills related to scientific investigation. This course is recommended for STEP students. For students choosing the laptop option, this course will integrate laptop computers with course expectations.
Prerequisite: SNC2DT/SNC2DL

SCH3UT/SCH3UL
Chemistry (STEP/STEP LAPTOP – University)
This course enables students to deepen their understanding of chemistry through the study of the properties of chemicals and chemical bonds; chemical reactions and quantitative relationships in those reactions; solutions and solubility; and atmospheric chemistry and the behaviour of gases. Students will further develop their analytical skills and investigate the qualitative and quantitative properties of matter, as well as the impact of some common chemical reactions on society and the environment. This course is recommended for STEP students. For students choosing the laptop option, this course will integrate laptop computers with course expectations.
Prerequisite: SNC2DT/SNC2DL

SCH3UZ
Environmental Chemistry (STEP/STEP LAPTOP – University)
This course enables students to deepen their understanding of chemistry through the study of the properties of chemicals and chemical bonds; chemical reactions and quantitative relationships in those reactions; solutions and solubility; and atmospheric chemistry and the behaviour of gases. Students will further develop their analytical skills and investigate the qualitative and quantitative properties of matter, as well as the impact of some common chemical reactions on society and the environment. Students will interpret regional chemical findings and seek ways to reduce the impact of human activities on the natural environment.
Prerequisite: SNC2DT/SNC2DL

SGM38T
Introduction to Mining (College/University)
This course will provide students with an overview of mining industry from the geological processes involved in discovery of an ore body to extraction and refining of products. Students will obtain an understanding of the economics that drive mine development and the environmental impact of mine development. Students will gain a better understanding of the mining processes through hands-on activities, guest speakers and participation in topic appropriate field trips. Students will also obtain a number of certifications required for the Specialist High Skills Major: Primary Industries – Mining.

SPH3UT/SPH3UL
Physics (STEP/STEP LAPTOP – University)
This course develops students’ understanding of the basic concepts of physics. Students will explore kinematics with an emphasis on linear motion; different kinds of forces; energy transformations; the properties of mechanical waves and sound; and electricity and magnetism. They will enhance their scientific investigation skills as they test laws of physics. In addition, they will analyze the interrelationships between physics and technology, and consider the impact of technological applications of physics on society and the environment. This course is recommended for STEP students. For students choosing the laptop option, this course will integrate laptop computers with course expectations.
Prerequisite: SNC2DT/SNC2DL

SPH3UZ
Physics for Engineers (STEP/STEP LAPTOP – University)
This course develops students’ understanding of the basic concepts of physics. Students will explore kinematics with an emphasis on linear motion; different kinds of forces; energy transformations; the properties of mechanical waves and sound; and electricity and magnetism. They will enhance their scientific investigation skills as they test laws of physics. In addition, they will analyze the interrelationships between physics and technology, and consider the impact of technological applications of physics on society and the environment. All units will focus on the principles of engineering and guest speakers will introduce students to the various disciplines of engineering.
Prerequisite: SNC2DT/SNC2DL
STEP/STEP LAPTOP – GRADE 11 – Continued

TDJ3MT/TDJ3ML  
Technological Design (STEP/STEP LAPTOP – College/University)  
This course examines how technological design is influenced by human, environmental, financial, and material requirements and resources. Students will research, design, build, and assess solutions that meet specific human needs, using working drawings and other communication methods to present their design ideas. They will develop an awareness of environmental, societal, and cultural issues related to technological design, and will explore career opportunities in the field, as well as the college and/or university program requirements for them. This fulfills a course requirement for the STEP program. Students will use the design process to complete a number of hands-on design activities in a variety of contexts (e.g. robotics, surveying, electricity, etc.). For students choosing the laptop option, this course will integrate laptop computers with course expectations.  
Prerequisite: TDJ2OT/TDJ2OL

TVD3MT  
Technological Interior Design (College/University)  
This activity-based course examines how the technological design of interior/exterior spaces is influenced by human, environmental, financial, and material requirements and resources. Students will research, design, build and assess the remodeling of interior and exterior spaces, and use specialized software to create virtual models to present design ideas. Through practical experience, students will develop knowledge and skills in the building of structures, their accessories and finishes. An academic design portfolio will be produced and students will explore career/school program opportunities in this field.  
Prerequisite: TDJ2OT/TDJ2OL

TPJ3MT  
Health Care (STEP/STEP LAPTOP – College/University)  
This course focuses on the development of knowledge and skills that will benefit students planning a career in the health care field. Students will learn about human anatomy and physiology, homeostasis, vital signs, disease prevention and treatment, how lifestyle choices affect health and well-being, and conventional and complementary methods of disease prevention and treatment. Students will develop an awareness of workers’ health and safety issues, environmental and societal issues related to health care, and career opportunities in the field. This course will examine health issues through project-based work, learning hands-on clinical skills and the expertise of guest speakers.  
Prerequisite: TDJ2OT/TDJ2OL

STEP/STEP LAPTOP – GRADE 12

ENG4UL  
English (STEP LAPTOP – University)  
This course emphasizes the consolidation of the literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyse a range of challenging literary texts from various periods, countries, and cultures; interpret and evaluate informational and graphic texts; and create oral, written, and media texts in a variety of forms. An important focus will be on using academic language coherently and confidently, selecting the reading strategies best suited to particular texts and particular purposes for reading, and developing greater control in writing. The course is intended to prepare students for university, college, or the workplace. This course will also integrate laptop computers with course expectations.  
Prerequisite: ENG3UL

SB4UT/SB4UL  
Biology (STEP/STEP LAPTOP - University)  
This course provides students with the opportunity for in-depth study of the concepts and processes that occur in biological systems. Students will study theory and conduct investigations in the areas of biochemistry, metabolic processes, molecular genetics, homeostasis, and population dynamics. Emphasis will be placed on the achievement of detailed knowledge and the refinement of skills needed for further study in various branches of the life sciences and related fields. For students choosing the laptop option, this course will integrate laptop computers with course expectations.  
Prerequisite: SB3UT/SB3UL

SCH4UT/SCH4UL  
Chemistry (STEP/STEP LAPTOP – University)  
This course enables students to deepen their understanding of chemistry through the study of organic chemistry, the structure and properties of matter, energy changes and rates of reaction, equilibrium in chemical systems, and electrochemistry. Students will further develop their problem-solving and investigation skills as they investigate chemical processes, and will refine their ability to communicate scientific information. Emphasis will be placed on the importance of chemistry in everyday life and on evaluating the impact of chemical technology on the environment. For students choosing the laptop option, this course will integrate laptop computers with course expectations.  
Prerequisite: SCH3UT/SCH3UL

SPH4UT/SPH4UL  
Physics (STEP/STEP LAPTOP – University)  
This course enables students to deepen their understanding of physics concepts and theories. Students will continue their exploration of energy transformations and the forces that affect motion, and will investigate electrical, gravitational, and magnetic fields and electromagnetic radiation. Students will also explore the wave nature of light, quantum mechanics, and special relativity. They will further develop their scientific investigation skills, learning, for example, how to analyze, qualitatively and quantitatively, data relating to a variety of physics concepts and principles. Students will also consider the impact of technological applications of physics on society and the environment. For students choosing the laptop option, this course will integrate laptop computers with course expectations.  
Prerequisite: SPH3UT/SPH3UL
SB14UZ  Forensics Biology (STEP/STEP LAPTOP – University)
This course provides students with the opportunity for in-depth study of the concepts and processes that occur in biological systems. Students will study theory and conduct investigations in the areas of biochemistry, metabolic processes, molecular genetics, homeostasis, and population dynamics. Emphasis will be placed on the achievement of detailed knowledge and the refinement of skills needed for further study in various branches of the life sciences and related fields. Grade 12 STEP biology will have an emphasis on real life scenarios and interactive genetic and forensic activities, using innovative activities. SB14UZ will be taught concurrently with SCH4UZ.
Prerequisite: SB13UT/SB13UL/SB13UZ

SCH4UZ  Forensics Chemistry (STEP/STEP LAPTOP – University)
This course enables students to deepen their understanding of chemistry through the study of organic chemistry, the structure and properties of matter, energy changes and rates of reaction, equilibrium in chemical systems, and electrochemistry. Students will further develop their problem-solving and investigation skills as they investigate chemical processes, and will refine their ability to communicate scientific information. Emphasis will be placed on the importance of chemistry in everyday life and on evaluating the impact of chemical technology on the environment. Grade 12 STEP chemistry will have an emphasis on real life scenarios and interactive genetic and forensic activities, using innovative activities. SCH4UZ will be taught concurrently with SB14UZ.
Prerequisite: SCH3UT/SCH3UL

TDJ4MT/TDJ4ML  Technological Design (STEP/STEP LAPTOP – College/University)
This course introduces students to the fundamentals of design advocacy and marketing, while building on their design skills and their knowledge of professional design practices. Students will apply a systematic design process to research, design, build, and assess solutions that meet specific human needs, using illustrations, presentation drawings, and other communication methods to present their designs. Students will enhance their problem-solving and communication skills, and explore career opportunities and the postsecondary education and training requirements for them.
Prerequisite: TDJ3MT/ TDJ3ML

TPJ4MT  Health Care (STEP/STEP LAPTOP – College/University)
This course focuses on the development of clinical skills needed to assess general health status. Students will learn about accepted health care practices and about how to perform various procedures, using appropriate instruments and equipment. They will learn about the human immune system, pathology, and disease prevention and treatment. Students will also expand their awareness of workers’ health and safety issues, environmental and societal issues related to health care and postsecondary destinations in the field. This course will focus on learning hands-on clinical skills and applying knowledge to the diagnosis of individual and societal health issues.
Prerequisite: TPJ3MT

Any ONE of SB14UL, SB14UT, SB14UZ, SCH4UL, SCH4UT, SCH4UZ, SPH4UL or SPH4UT is compulsory for STEP students.

TECHNOLOGICAL EDUCATION

TCJ2O0  Construction Technology (Open)
This course introduces students to building materials and processes through opportunities to design and build various construction projects. Students will learn to create and read working drawings, become familiar with common construction materials, components and processes, and perform a variety of fabrication, assembly and finishing operations. They will use a variety of hand and power tools and apply knowledge of imperial and metric systems of measurement, as appropriate. Students will develop an awareness of environmental and social issues related to construction technology and will explore secondary and postsecondary pathways leading to careers in the industry.

TEJ2O0  Computer Technology (Open)
This course introduces students to computer systems, networking, and interfacing, as well as electronics and robotics. Students will assemble, repair, and configure computers with various types of operating systems and application software. Students will build small electronic circuits and write computer programs to control simple peripheral devices or robots. Students will also develop an awareness of environmental and societal issues related to the use of computers, and learn about secondary and postsecondary pathways to careers in computer technology. This is an introductory course in computer studies. Its focus is on hardware, programming, graphics, web design, networking and basic electronics.

TEJ3M0  Computer Engineering Technology (College/University)
This course examines computer systems and control of external devices. Students will assemble computers and small networks by installing and configuring appropriate hardware and software. Students will develop knowledge and skills in electronics, robotics, programming, and networks, and will build systems that use computer programs and interfaces to control and/or respond to external devices. Students will develop an awareness of environmental and societal issues related to the use of computers, and will learn about college and university programs leading to careers in computer engineering. This course offers the student a hands-on opportunity to learn about computer hardware, different operating systems, electronics, electricity, computer programming and networking.
ICS3U0  
**Introduction to Computer Science (University)**
This course introduces students to computer science. Students will design software independently and as part of a team, using industry-standard programming tools and applying the software development life-cycle model. They will also write and use subprograms within computer programs. Students will develop creative solutions for various types of problems as their understanding of the computing environment grows. They will also explore environmental and ergonomic issues, emerging research in computer science, and global career trends in computer-related fields. This project-based programming course offers students the opportunity to learn basic programming techniques while focusing on video game design.

TDA3M0  
**Technological Design: Architectural Design (College/University)**
This course examines how technological design is influenced by human, environmental, financial, and material requirements and resources. Students will research, design, build, and assess solutions that meet specific human needs, using working drawings and other communication methods to present their design ideas. They will develop an awareness of environmental, societal, and cultural issues related to technological design, and will explore career opportunities in the field, as well as the college and/or university program requirements for them. Students design and draw floor plans, details, landscape plans, and perspectives for a single-family residence; both computer-aided drafting and manual drafting skills are developed.

TTJ3C0  
**Transportation Technology (College)**
This course enables students to develop technical knowledge and skills as they study, test, service, and repair engine, electrical, suspension, brake, and steering systems on vehicles, aircraft, and/or watercraft. Students will develop communication and teamwork skills through practical tasks, using a variety of tools and equipment. Students will develop an awareness of environmental and societal issues related to transportation and will learn about apprenticeship and college programs leading to careers in the transportation industry. Students will spend a large part of their class time practicing practical skills by maintaining and repairing automotive systems.

Prerequisite: None

TCJ3C0  
**Construction Engineering Technology (College)**
This course focuses on the development of knowledge and skills related to residential construction. Students will gain hands-on experience using a variety of construction materials, processes, tools, and equipment; learn about building design and planning construction projects; create and interpret working drawings and sections; and learn how the Ontario Building Code and other regulations and standards apply to construction projects. Students will also develop an awareness of environmental and societal issues related to construction technology, and explore career opportunities in the field. Students will explore working with wood through a variety of hands-on projects.

TGJ3M0  
**Communications Technology (College/University)**
This course examines communications technology from a media perspective. Students will develop knowledge and skills as they design and produce media projects in the areas of live, recorded, and graphic communications. These areas may include TV, video, and movie production; radio and audio production; print and graphic communications; photography; digital imaging; broadcast journalism; and interactive new media. Students will also develop an awareness of related environmental and societal issues and explore college and university programs and career opportunities in the various communications technology fields. In this project-based course, students will develop skills and create projects using computer graphics, photography, video, audio, animation, and web design.

TEJ4M0  
**Computer Engineering Technology, Grade 12 (College/University)**
This course extends students’ understanding of computer systems and computer interfacing with external devices. Students will assemble computer systems by installing and configuring appropriate hardware and software, and will learn more about fundamental concepts of electronics, robotics, programming, and networks. Students will examine environmental and societal issues related to the use of computers, and explore postsecondary pathways leading to careers in computer engineering and related fields. **This project-based course offers the student a hands-on opportunity to work with computer hardware, electronics, robotics, networking and computer programming.**

Prerequisite: TEJ3M0

ICS4U0  
**Computer Science (University)**
This course enables students to further develop knowledge and skills in computer science. Students will use modular design principles to create complex and fully documented programs, according to industry standards. Student teams will manage a large software development project, from planning through to project review. Students will also analyse algorithms for effectiveness. They will investigate ethical issues in computing and further explore environmental issues, emerging technologies, areas of research in computer science, and careers in the field. In this course, the student will learn advanced programming techniques in the Java programming language.

Prerequisite: ICS3U0

TTJ4C0  
**Transportation Technology (College)**
This course enables students to further develop technical knowledge and skills as they study, test, service, and repair engine management systems; power trains; steering/control, suspension, brake, and body systems on vehicles, aircraft, and/or watercraft; and/or small-engine products. Students will refine communication and teamwork skills through practical tasks, using a variety of tools and equipment. Students will expand their awareness of environmental and societal issues related to transportation and their knowledge of apprenticeship and college programs leading to careers in the transportation industry. Students will spend a large part of their class time practicing practical skills by maintaining and repairing automotive systems.

Prerequisite: TTJ3C0
TGJ4M0 Communications Technology (College/University)  
Prerequisite: TCJ3C0  

Students will explore working with wood through a variety of hands-on projects. They will focus on environmental and societal issues related to construction engineering technology, and explore career opportunities in the field. Students will learn about construction terminology and relevant building codes and regulations, as well as health and safety standards and practices. Students will also enhance their problem-solving and communication skills, and explore career opportunities and the postsecondary education and training requirements for them. Students develop various types of construction drawings for a variety of different projects; colour rendering, sketching, and independent project selection is included in this grade 12 course.  
Prerequisite: TDA3M0

TCJ4C0 Construction Engineering Technology (College)  
Woodworking  

This course enables students to further develop knowledge and skills related to residential construction and to explore light commercial construction. Students will gain hands on experience using a variety of materials, processes, tools, and equipment and will learn more about building design and project planning. They will continue to create and interpret construction drawings and will extend their knowledge of construction terminology and of relevant building codes and regulations, as well as health and safety standards and practices. Students will also focus on environmental and societal issues related to construction engineering technology, and explore career opportunities in the field. Students will explore working with wood through a variety of hands-on projects.  
Prerequisite: TCJ3C0

TDA4M0 Technological Design: Architectural Design (College/University)  

This course introduces students to the fundamentals of design advocacy and marketing, while building on their design skills and their knowledge of professional design practices. Students will apply a systematic design process to research, design, build, and assess solutions that meet specific human needs, using illustrations, presentation drawings, and other communication methods to present their designs. Students will enhance their problem-solving and communication skills, and explore career opportunities and the postsecondary education and training requirements for them. Students develop various types of construction drawings for a variety of different projects; colour rendering, sketching, and independent project selection is included in this grade 12 course.  
Prerequisite: TDA3M0

LOCALLY DEVELOPED CREDIT COURSES

ENG2L0 Locally Developed Compulsory Credit Course, English  

In this course, students focus on extending their literacy and communication skills to prepare for success in their daily lives, in the workplace, in the English Grade 11 Workplace Preparation course, or in the English: Contemporary Aboriginal Voices, Grade 11 Workplace Preparation Course. The course is organized by strands that extend listening and talking skills, reading and viewing skills, and writing skills. In all strands, the focus is on refining foundational literacy skills and in using language clearly and accurately in a variety of authentic contexts. Students build on their strategies and engage in the processes involved in talking, listening, reading, viewing, writing, and thinking, and reflect regularly upon their growth in these areas.  
Prerequisite: A Grade 9 English Credit

ENG3E0 English (Workplace)  

This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in the workplace and in daily life. Students will study the content, form, and style of a variety of contemporary informational, graphic, and literary texts; and create oral, written, and media texts in a variety of forms for practical purposes. An important focus will be on using language clearly and accurately in a variety of formal and informal contexts. The course is intended to prepare students for the compulsory Grade 12 workplace preparation course.  
Prerequisite: ENG2P0

ENG4E0 English (Workplace)  

This course emphasizes the consolidation of literacy, communication, and critical and creative thinking skills necessary for success in the workplace and in daily life. Students will analyse informational, graphic, and literary texts and create oral, written, and media texts in a variety of forms for workplace-related and practical purposes. An important focus will be on using language accurately and organizing ideas and information coherently. The course is intended to prepare students for the workplace and active citizenship.  
Prerequisite: ENG3E0

MAT2L0 Locally Developed Compulsory Credit Course, Math  

This course emphasizes the extension of mathematical knowledge and skills to prepare students for success in their everyday lives, in the workplace, and in the Mathematics Grade 11 and Grade 12 Workplace Preparation courses. The course is organized by three strands related to money sense, measurement, and proportional reasoning. In all strands, the focus is on strengthening and extending key foundational mathematical concepts and skills by solving authentic, everyday problems. Students have opportunities to extend their mathematical literacy and problem-solving skills and to continue developing their skills in reading, writing, and oral language through relevant and practical math activities.  
Prerequisite: MPM1D0/MFM1P0/MAT1L
MEL3E0 Mathematics for Work and Everyday Life (Workplace)
This course enables students to broaden their understanding of mathematics as it is applied in the workplace and daily life. Students will solve problems associated with earning money, paying taxes, and making purchases; apply calculations of simple and compound interest in saving, investing, and borrowing; and calculate the costs of transportation and travel in a variety of situations. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.
Prerequisite: MPM2D0/MPM2DE/MFM2P0 or a ministry-approved locally developed Grade 10 mathematics course

MEL4E0 Mathematics for Work and Everyday Life, Grade 12 (Workplace)
This course enables students to broaden their understanding of mathematics as it is applied in the workplace and daily life. Students will investigate questions involving the use of statistics; apply the concept of probability to solve problems involving familiar situations; investigate accommodation costs and create household budgets; use proportional reasoning; estimate and measure; and apply geometric concepts to create designs. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.
Prerequisite: MEL3E0