

Grade 11 Course Calendar

For a quick and easy access to all Grade 11 courses offered, please click the bookmarks tab to the left of your screen.

Then select a subject and the corresponding courses will appear.

ARTS

DRAMATICARTS

ADA 3M **Dramatic Arts -** **1 credit**
University/College Preparation

This course requires students to put together and perform dramatic presentations that deal with a variety of issues from the past and present. Students will analyse, interpret, and perform works of drama from various cultures, including Western plays from around 1900. Students will also do research on different acting styles and conventions for their presentations, create original works, and analyse the functions of playwright, director, actor, technician, and audience.

ADA 3O **Dramatic Arts - Open** **1 credit**

This course requires students to put together and present dramatic works dealing with stories, personal experiences, and local issues. Students will do research on and study contemporary theatrical forms, such as docudrama and forum theatre. They will interpret and present works in a variety of dramatic forms; create and script original works; analyse and reflect on dramatic works; and develop their communication skills and other skills useful in a variety of careers.

Dramatic Arts Focus Courses:

ADB 3M **Dramatic Arts -** **1 credit**
Music Theatre
University/College Preparation

Study in this focus course includes: the elements of a musical-book, lyrics, score, dance; early forms of musical theatre - opera, operetta, minstrels, vaudeville, burlesque; and various composers - Berlin, Gershwin, Kern, Rodgers and Hammerstein, Sondheim, Lloyd Webber.

ADC 3M **Dramatic Arts -** **1 credit**
Drama in the Community -
University/College Preparation

ADC 3O **Dramatic Arts -** **1 credit**
Drama in the Community - Open

These focus courses in Drama in the Community will provide students in both the University/College and Open destination courses with the opportunity to learn increasingly complex skills in the creation of drama, based on specific community issues which reflect the community's cultural diversity. Specific drama forms suitable to the genre will also be explored.

ARTS

ADD 3M **Dramatic Arts - Production -** **1 credit**
University/College Preparation

ADD 3O **Dramatic Arts - Production -** **1 credit**
Open

These focus courses in Production will provide students in both the University/College and Open destination courses with the opportunity to learn an increasingly complex range of skills in technical theatre. Set, lighting, sound and costume design, stage management, front-of-house, construction, box office and publicity are a few of the production elements available.

MUSIC

AMU3M **Music -** **1 credit**
University/College Preparation

This course emphasizes the appreciation, analysis, and performance of various kinds of music, including baroque and classical music, popular music, and Canadian and non-Western music. Students will perform technical exercises and appropriate repertoire, complete detailed creative activities, and analyse and evaluate live and recorded performances. They will continue to increase their understanding of the elements of music while developing their technical and imaginative abilities.

AMU3O **Music - Open** **1 credit**

This course develops students' artistic knowledge and skills through the performance of music and the preparation of music productions. Students will perform appropriate works, particularly works in contemporary popular styles. Independently and in groups, they will also plan, market, and produce music productions, making use of appropriate technology, and will evaluate the results.

Music Focus Courses:

AMG 3M **Music - Guitar -** **1 credit**
University/College Preparation

AMG 3O **Music - Guitar - Open** **1 credit**

These focus courses in Guitar will provide students with the opportunity to learn increasingly complex performance skills, to further develop technique, and to continue their study of music theory, history, analysis, composition and technology.

ARTS

AMH3M Music -Stage - Band Music 1 credit
University/College Preparation

This focus course will provide students with the opportunity to further develop their technical and imaginative abilities in a stage band environment.

AMI3M Music -Instrumental Music - 1 credit
Band - University/College Preparation

AMI3O Music -Instrumental Music - 1 credit
Band - Open

These focus courses in Instrumental Music - Band will provide students in both the University/College and Open destination courses with the opportunity to learn increasingly complex skills in music literacy, performing, composing and arranging. Students will further develop their performance and sight-reading skills, while continuing their study of music theory, history, and analysis.

AMJ3M Music -Vocal Jazz - 1 credit
University/College Preparation

AMJ 3O Music -Vocal Jazz - Open 1 credit

These focus courses in Vocal Jazz will provide students in both the University/College and Open destination courses with the opportunity to learn skills in jazz performance techniques, including improvisation and solo skills. Students will also have the opportunity to learn to read, perform and appreciate music and to study jazz theory, history and analysis.

AMK 3M Music -Keyboard - 1 credit
University/College Preparation

AMK 3O Music -Keyboard - Open 1 credit

These focus courses in Keyboard Music will provide students in both the University/College and Open destination courses with the opportunity to learn to play increasingly complex melodies, scales, rhythmic patterns and chords. Students will also have the opportunity to learn to further develop their skills in reading and performing music, and to continue their study of music theory, history, and analysis.

ARTS

AMM3M Music - Music and Computers - 1 credit
University/College Preparation

AMM 3O Music - Music and Computers - 1 credit
Open

These focus courses in Music and Computers will provide students in both the University/College and Open destination courses with the opportunity to develop increasingly complex technical and creative skills in music composition, orchestration, and arrangement through Midi, computers and the electronic keyboard. Students will also have the opportunity to continue their study of music theory, history and analysis.

AMR 3M Music - Repertoire - 1 credit
University/College Preparation

AMR 3O Music - Repertoire - Open 1 credit

These focus courses in Music Repertoire will provide students in both the University/College and Open destination courses with the opportunity to learn an increasingly complex and extensive repertoire for their instrument or voice. They will continue to develop their sight-reading, presentation, and performance skills, as well as various styles through listening and analysing selected works.

AMS 3M Music - Instrumental Music - 1 credit
Strings - University/College Preparation

AMS 3O Music - Instrumental Music - 1 credit
Strings - Open

These focus courses in Instrumental Music - Strings will provide students in both the University/College and Open destination courses with the opportunity to learn to further refine their bowing and performance techniques, as well as their projection, intonation and tone quality. Students will continue to develop their skills in music literacy, performing, composing and arranging, as well as their study of music theory, history, and analysis.

ARTS

Visual Arts Focus Courses:

AWA 30 **Visual Arts - Crafts General - Open** **1 credit**

This focus course focuses on craft activities. Students will create art works through this media.

AWC 30 **Visual Arts - Ceramic - Open** **1 credit**

This focus course provides students with opportunities to further develop their skills in Visual Arts with a focus on ceramics.

AWD 3M **Visual Arts - Applied Design - University/College Preparation** **1 credit**

AWD 3O **Visual Arts - Applied Design - Open** **1 credit**

These focus courses in Applied Design will provide students in both the University/College and Open destination courses with the opportunity to learn increasingly complex mechanical and computer page layout design techniques. Students will also continue to learn how to apply the principles of art to commercial design through a variety of advertising, animation and illustration techniques.

AWJ 3M **Visual Arts - Stage Design - University/College Preparation** **1 credit**

AWJ 3O **Visual Arts - Stage Design - Open** **1 credit**

These focus courses provides students with opportunities to further develop their skills and knowledge in Visual Arts with a focus on stage design.

AWM3M **Visual Arts - Drawing and Painting - University/College Preparation** **1 credit**

AWM 3O **Visual Arts - Drawing and Painting - Open** **1 credit**

These focus courses in Drawing and Painting will provide students in both the University/College and Open destination courses with the opportunity to learn increasingly complex skills in drawing and painting and to apply these techniques to create a variety of subject matter. Students will also continue to learn art history and criticism techniques and approaches as they appreciate and evaluate their own art works and those of others.

ARTS

AWP 3M **Visual Arts -Sculpture - University/College Preparation** **1 credit**

AWP 3O **Visual Arts -Sculpture - Open** **1 credit**

These focus courses in Sculpture will provide students in both the University/College and Open destination courses with the opportunity to learn increasingly complex skills in sculpting techniques and castings and in the use of tools and materials specific to the genre. Students will also have the opportunity to continue to learn about the historical development of sculpture and about the specific achievement of a variety of artists and societies.

AWQ 3M **Visual Arts -Photography - University/College Preparation** **1 credit**

AWQ 3O **Visual Arts -Photography - Open** **1 credit**

These focus courses in Photography will provide students in both the University/College and Open destination courses with the opportunity to learn skills in black and white photography. Students will also be provided with the opportunity to learn about the history of photography as well as to apply design principles to their compositions. *Note:* There will be a materials fee for this course, and students should have access to a 35 mm SLR camera.

BUSINESS STUDIES

BAF 3M Financial Accounting Fundamentals - 1 credit
University/College Preparation

This course introduces students to the fundamental principles and procedures of accounting. Students will develop financial analysis and decision-making skills that will assist them in future studies and/or career opportunities in business. Students will acquire an understanding of accounting for a service and a merchandising business, computerized accounting, financial analysis, and current issues and ethics in accounting.

BAI3E Accounting Essentials - 1 credit
Workplace Preparation

This course introduces students to the accounting cycle of a service business. Students will use computer application software to record business transactions and to prepare financial statements. Students will also investigate banking and cash management, decision making, ethical behaviour, and career opportunities in the field of accounting.

BDI 3C Entrepreneurship: The Venture - 1 credit
College Preparation

This course focuses on ways in which entrepreneurs recognize opportunities, generate ideas, and organize resources to plan successful ventures that enable them to achieve their goals. Students will create a venture plan for a student-run school-based or summer business. Through hands-on experiences, students will have opportunities to develop the values, traits, and skills, most often associated with successful entrepreneurs.

BDP 3O Entrepreneurship: 1 credit
The Enterprising Person - Open

This course examines the importance of enterprising employees in today's changing business environment. Students will learn about the skills and attributes of enterprising employees, the distinguishing features of their work environments, and the challenges and rewards of becoming an enterprising person. Students will also have an opportunity to demonstrate and develop enterprising skills by planning and organizing a school or community event.

BUSINESS STUDIES

BMI 3C Marketing: Goods, Services, 1 credit
Events - College Preparation

This course introduces the fundamental concepts of product marketing, which includes the marketing of goods, services, and events. Students will examine how trends, issues, global economic changes, and information technology influence consumer buying habits. Students will engage in marketing research, develop marketing strategies, and produce a marketing plan for a product of their choice.

BMX 3E Marketing: Retail and Service - 1 credit
Workplace Preparation

This course focuses on marketing activities in the retail and service sectors. Students will examine trends and global influences on marketing decisions, and will learn about the importance of customer service in developing a customer base and maintaining customer loyalty. Through hands-on learning, students will develop personal selling and information technology skills that will prepare them for a variety of marketing-related positions in the workplace.

BTA 3O Information and Communication 1 credit
Technology: The Digital Environment - Open

This course prepares students for the digital environment. Using a hands-on approach, students will further develop information and communication technology skills through the use of common business software applications. The concept and operation of e-business will be explored, and students will design and create an e-business website. The skills developed in this course will prepare students for success in the workplace and/or postsecondary studies.

Business Studies Cooperative Education Program

All business courses can be used in the Cooperative Education Program for students considering careers in a variety of fields such as accounting, human resources, marketing and advertising, law and security, tourism and travel, entrepreneurship and business administration.

CANADIAN AND WORLD STUDIES

CGD3M **The Americas: Geographic Patterns and Issues - University/College Preparation** **1 credit**

This course investigates the geographic systems and patterns of the Americas, focusing on questions arising from the growing interdependence of the countries in the region. Students will examine diverse environmental, economic, and cultural factors influencing the different countries and their peoples, and the interactions among them. Students will use a variety of geotechnologies and inquiry and communication methods to investigate trends and issues and communicate their findings.

CGF3M **Physical Geography: Patterns, Processes, and Interactions - University/College Preparation** **1 credit**

This course examines the major patterns of physical geography and the powerful forces that affect them. Students will investigate the dynamic nature of the earth, the evolving relationship between the planet and its people, and the factors that limit our ability to predict the changes that will occur. Students will use a wide range of geotechnologies and inquiry methods to investigate the distribution and interaction of the elements of their physical environment and to communicate their findings.

CGG30 **Travel and Tourism: A Regional Geographic Perspective - Open** **1 credit**

This course focuses on travel and tourism as a vehicle for the study of selected world regions. Using a variety of geotechnologies and inquiry and communication methods, students will conduct and present case studies that develop their understanding of the unique characteristics of selected world regions; the environmental, cultural, economic, and political factors that influence travel and tourism; and the impact of the travel industry on communities and environments around the world.

CGT3E **Geographics: The Geographer's Toolkit - Workplace Preparation** **1 credit**

This course focuses on giving students practical experiences with geotechnologies and related skills. Students will engage in image interpretation, desktop mapping, analysis using geographic information systems (GIS), use of the global positioning system (GPS), and data collection and management. Students will conduct fieldwork and explore applications and career opportunities in environmental, economic, and political contexts. Students will use a variety of communication tools and methods to present the results of their investigations.

CANADIAN AND WORLD STUDIES

CHA3U **American History - University Preparation** **1 credit**

This course traces the social, economic, and political development of the United States from colonial times to the present. Students will examine issues of diversity, identity, and culture that have influenced the country's social and political formation and will consider the implications of its expansion into a global superpower. Students will use critical-thinking and communication skills to determine causal relationships, evaluate multiple perspectives, and present their own points of view.

CHT30 **World History Since 1900: Global and Regional Perspectives - Open** **1 credit**

This course focuses on the major events and issues in world history from 1900 to the present. Students will investigate the causes and effects of global and regional conflicts and the responses of individuals and governments to social, economic, and political changes. Students will use critical-thinking and communication skills to formulate and test points of view, draw conclusions, and present their findings about the challenges facing people in various parts of the world.

CHW3M **World History to the Sixteenth Century - University/College Preparation** **1 credit**

This course investigates the history of humanity from earliest times to the sixteenth century. Students will analyse diverse societies from around the world, with an emphasis on the political, cultural, and economic structures and historical forces that have shaped the modern world. They will apply historical inquiry, critical-thinking, and communication skills to evaluate the influence of selected individuals, groups, and innovations and present their conclusions.

This course may be offered in French as part of the Extended French program. See page 10 for more details.

CANADIAN AND WORLD STUDIES

CLU3E **Understanding Canadian Law -
Workplace Preparation** **1 credit**

This course gives students practical information about legal issues that directly affect their lives. Students will examine the need for laws in society, the roots of Canada's legal system, the rights and freedoms that people in Canada enjoy, and the basic elements of criminal law and dispute resolution. Through experiences such as mock trials, debates, and case studies, students will apply inquiry and communication skills to develop and express opinions on legal topics of interest to them.

CLU3M **Understanding Canadian Law -
University/College Preparation** **1 credit**

This course explores Canadian law with a focus on legal issues that are relevant to people's everyday lives. Students will investigate fundamental legal concepts and processes to gain a practical understanding of Canada's legal system, including the criminal justice system. Students will use critical-thinking, inquiry, and communication skills to develop informed opinions on legal issues and apply this knowledge in a variety of ways and settings, including case analysis, legal research projects, mock trials, and debates.

Canadian and World Studies Cooperative Education Program

All Canadian and World Studies courses can be used in the Cooperative Education Program for students considering careers in a variety of fields such as archeology, art history, politics, travel and tourism, environmental studies, journalism, urban and regional planning, teaching, law and historical research.

COMPUTER STUDIES

See Technological Education — Part B: Computer Studies

ENGLISH (COMPULSORY CREDITS)

ENG3C **English -
College Preparation** **1 credit**

This course emphasizes the development of literacy, critical thinking, and communication skills. Students will study the content, form, and style of informational texts and literary works from Canada and other countries; write reports, correspondence, and persuasive essays; and analyse media forms, audiences, and media industry practices. An important focus will be on establishing appropriate voice and using business and technical language with precision and clarity.

ENG3E **English -
Workplace Preparation** **1 credit**

This course emphasizes the development of literacy, critical thinking, and communication skills. Students will study the content, form, and style of informational texts and literary works; write explanations, letters, and reports; and investigate the connections among media forms, audiences, and media industry practices. An important focus will be on using language clearly, accurately, and effectively in a variety of contexts.

ENG3U **English -
University Preparation** **1 credit**

This course emphasizes the development of literacy, critical thinking, and communication skills. Students will analyse challenging texts, both contemporary and historical; conduct research and analyse the information gathered; write persuasive and literary essays; and analyse the relationship among media forms, audiences, and media industry practices. An important focus will be on understanding the development of the English language.

ENGLISH (OPTIONAL CREDITS)

ELS 30 **Literacy Skills:** **1 credit**
Reading and Writing - Open

This course emphasizes the strengthening of essential reading and writing skills. Students will read short plays, short stories, novels, poems, and newspaper and magazine articles and opinion pieces, with particular attention to locating important information, identifying main ideas and supporting details, extending personal knowledge, responding imaginatively, and using specific strategies to expand vocabulary. An important focus will be on writing clear, accurate, and coherent narratives, summaries, reports, letters, and short essays, using correct grammar, punctuation, and spelling.

EMS 30 **Media Studies - Open** **1 credit**

This course emphasizes knowledge and skills that will enable students to understand media communication in the twenty-first century and to use media effectively and responsibly. Through analysing the forms and messages of a variety of media works and audience responses to them, and through creating their own media works, students will develop critical thinking skills, aesthetic and ethical judgement, and skills in viewing, representing, listening, speaking, reading, and writing.

ETC3M **Canadian Literature -** **1 credit**
University/College Preparation

This course emphasizes the study and analysis of literary texts by Canadian authors for students with a special interest in Canadian literature. Students will study the themes, forms, and stylistic elements of a variety of contemporary and historical literary texts representative of the diverse cultures and regions of Canada, and will respond personally, critically, and creatively to them.

English Cooperative Education Program

English courses will be of interest to students considering careers in journalism, research, teaching, library studies, publishing, theatre and communications - radio and television broadcasting.

ENGLISH AS A SECOND LANGUAGE

**For English as a Second Language
Course Descriptions, please see pages 59 & 60.**

FRENCH AS A SECOND LANGUAGE

FEF 3U **Extended French -** **1 credit**
University Preparation

This course focuses on developing French-language skills through the study of Canadian francophone authors. Students will analyse works in a variety of genres and will produce various types of written assignments, including a formal essay. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course.

For more information regarding the Extended French program see page 10.

FSF 3U **Core French -** **1 credit**
University Preparation

This course draws on a variety of themes to promote extensive development of reading and writing skills and to reinforce oral communication skills. Students will gain a greater understanding of French-speaking cultures in Canada and around the world through their reading of a variety of materials, including a short novel or a play. Students will produce various written assignments, including a formal essay. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course.

FRENCH AS A SECOND LANGUAGE

FSF 30 **Core French - Open** **1 credit**

This course draws on a broad theme, such as leisure activities, to develop oral communication, reading, and writing skills. Students will give presentations, read a selection of short stories and articles, and produce a variety of written assignments. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course.

French Cooperative Education Program

All French classes can be used in the Cooperative Education Program for students considering careers in a variety of fields such as teaching, interpretation, travel & tourism, politics and international business.

GUIDANCE AND CAREER EDUCATION

GLE 30* **Advanced Learning Strategies: Skills for Success After Secondary School - Open** **1 credit**

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.

*This course is only available to students who have an IEP — with Principal permission only.

GPP 30 **Leadership and Peer Support - Open** **1 credit**

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.

GUIDANCE AND CAREER EDUCATION

GWL30 **Designing Your Future - Open** **1 credit**

This course prepares students to make successful transitions to postsecondary destinations as they investigate specific postsecondary options based on their skills, interests, and personal characteristics. Students will explore the realities and opportunities of the workplace and examine factors that affect success, while refining their job search and employability skills. Students will expand their portfolios with a focus on their targeted destination and develop an action plan for future success.

Guidance and Career Education Cooperative Education Program

Guidance and Career Education is an excellent link with the Cooperative Education Program for students considering careers in any area.

HEALTH AND PHYSICAL EDUCATION

PPL 30 **Healthy Active Living Education - Open** **1 credit**

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 practise goal-setting, decision-making, coping, social, and interpersonal skills. Students will also study the components of healthy relationships, reproductive health, mental health, and personal safety.

Areas of Focus:

PAF 30 **Personal and Fitness Activities** **1 credit**

This Healthy Active Living focus course is designed to promote, develop and encourage improved fitness and self-concept through weight training and fitness. Students will study basic muscle anatomy and physiology as well as the key aspects of designing a personal weight-training program, which will be followed and monitored throughout the year. Health related topics will include contemporary fitness issues, nutrition and substance abuse.

HEALTH AND PHYSICAL EDUCATION

PPZ 30 **Health for Life - Open** **1 credit**

This course helps students develop a personalized approach to healthy living. Students will examine the factors that affect their own health and the health of individuals as members of the community. They will learn about the components of the VITALITY approach to healthy living – an initiative that promotes healthy eating, an active lifestyle, and a positive self-image. Throughout this course, students will develop the skills necessary to take charge of and improve their own health, as well as to encourage others to lead healthy lives.

Health and Physical Education Cooperative Education Program

Health and Physical Education courses will be of interest to students considering careers in personal fitness training, sports management, kinesiology, nursing, and recreation therapy.

INTERNATIONAL LANGUAGES

LBA CU/ **International Languages,** **1 credit**
LYXCU **Level 3 -**
 University Preparation

This course offers students opportunities to further develop their knowledge of the international language and to enhance their communication skills. Students will use increasingly sophisticated language in a variety of activities that will enable them to speak and write with clarity and accuracy. Students will also enhance their thinking skills through the critical study of literature, and continue to explore aspects of the culture of countries where the language is spoken through a variety of print and technological resources.

LWGPU	– German	– 1 credit
LWICU/LWICO	– Italian	– 1 credit
LKJCU	– Japanese	– 1 credit
LWSCU	– Spanish	– 1 credit

International Languages Cooperative Education Program

International Language courses can be used in the Cooperative Education Program for students considering careers in a variety of fields such as travel & tourism, politics, teaching and international business.

MATHEMATICS

MBF 3C **Foundations for College** **1 credit**
Mathematics - College Preparation

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, as well as of measurement and geometry; 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 and two variables. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

MCF3M **Functions and Applications -** **1 credit**
University/College Preparation

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.

MCR3U **Functions -** **1 credit**
University Preparation

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, algebraically, and graphically; solve problems involving application of functions; and develop facility in simplifying polynomial and rational expressions. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

MEL3E **Mathematics for Work and** **1 credit**
Everyday Life - Workplace Preparation

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.

MATHEMATICS

Mathematics Cooperative Education Program

Mathematics courses can be used in the Cooperative Education Program for students considering careers in business management, accounting, financial planning, teaching, and engineering.

SCIENCE

SBI 3C **Biology - College Preparation** **1 credit**

This course focuses on the processes involved in biological systems. Students will learn concepts and theories as they conduct investigations in the areas of cellular biology, microbiology, animal anatomy and physiology, plant structure and physiology, and environmental science. Emphasis will be placed on the practical application of concepts and skills needed for further study in the various branches of life sciences and related fields.

SBI 3U **Biology - University Preparation** **1 credit**

This course furthers students' understanding of the processes involved in biological systems. Students will study cellular functions, genetic continuity, internal systems and regulation, the diversity of living things, and the anatomy, growth, and functions of plants. The course focuses on the theoretical aspects of the topics under study, and helps students refine skills related to scientific investigation.

SCH 3U **Chemistry - University Preparation** **1 credit**

This course focuses on the concepts and theories that form the basis of modern chemistry. Students will study the behaviours of solids, liquids, gases, and solutions; investigate changes and relationships in chemical systems; and explore how chemistry is used in developing new products and processes that affect our lives and our environment. Emphasis will also be placed on the importance of chemistry in other branches of science.

SCIENCE

SNC 3E **Science - Workplace Preparation** **1 credit**

This course provides students with the science-related knowledge and skills they need to help them make informed decisions in the workplace and in their personal lives. Students will explore a range of topics, including materials and safety; electrical circuits; micro-organisms; the human immune system and defences against disease; and the impact of technology on the environment. Emphasis is placed on relating these topics directly to students' experiences, both in the world of work and in daily life.

SNC 3M **Science - University/College Preparation** **1 credit**

This course enables students, including those who do not intend to pursue science-related programs at the postsecondary level, to increase their understanding of science and its technological applications. Students will explore a range of topics, including the safe use of everyday chemicals; the science of nutrition and body function; waste management; the application of scientific principles in space; and technologies in everyday life. Emphasis will be placed on the role of science and technology in daily life and in relation to social and environmental issues.

SPH 3U **Physics - University Preparation** **1 credit**

This course develops students' understanding of the basic concepts of physics. Students will study the laws of dynamics and explore different kinds of forces, the quantification and forms of energy (mechanical, sound, light, thermal, and electrical), and the way energy is transformed and transmitted. They will develop scientific-inquiry skills as they verify accepted laws and solve both assigned problems and those emerging from their investigations. Students will also analyse the interrelationships between physics and technology, and consider the impact of technological applications of physics on society and the environment.

This course may be available "on-line" as an eLearning course. See your Guidance Counsellor.

Science Cooperative Education Program

Science courses will be of interest to students considering careers in such areas as human and veterinary medicine, chemistry, biology, physics, engineering and other related fields.

SOCIAL SCIENCES AND THE HUMANITIES

HIP3E Managing Personal Resources - 1 credit
Workplace Preparation

This course prepares students for living independently and working successfully with others. Students will learn to manage their personal resources (including talent, money, and time), to develop interpersonal skills, and to understand economic influences on workplace issues, in order to make wise and responsible personal and occupational choices. The course emphasizes the achievement of expectations through practical experiences and introduces students to skills used in researching and investigating resource management.

HIR 3C Managing Personal and 1 credit
Family Resources - College Preparation

This course explores how to use human, material, and community resources effectively, and how to make informed choices with respect to clothing purchases, finance, food and nutrition, housing, and transportation. Students will learn about the dynamics of human interaction; how to make responsible choices in their transition to postsecondary education and careers; and strategies to enable them to manage time, talent, and money effectively. This course also introduces students to skills used in researching and investigating resource management.

HLS 3O Living Spaces and Shelter - 1 credit
Open

This course analyses how different types of living spaces and forms of shelter meet people's physical, social, emotional, and cultural needs and reflect society's values, established patterns of living, and economic and technological developments. Students will learn how to make practical decisions about where to live and how to create functional and pleasing environments, and will explore occupational opportunities related to housing and design. They will also learn skills used in researching and investigating living accommodations and housing.

SOCIAL SCIENCES AND THE HUMANITIES

HNC 3O Fashion and Creative 1 credit
Expression - Open

This course explores what clothing communicates about the wearer and how it becomes a creative and entrepreneurial outlet through the design and production processes. Students will learn, through practical experiences, about the nature of fashion design; the characteristics of fibres and fabrics; the construction, production, and marketing of clothing; and how to plan and care for a wardrobe that is appropriate for an individual's appearance, activities, employment, and lifestyle. Students will develop research skills as they explore the evolution of fashion and its relationship to society, culture, and individual psychology.

HPC 3O Parenting - Open 1 credit

This course focuses on the skills and knowledge needed to promote the positive and healthy nurturing of children, with particular emphasis on the critical importance of the early years to human development. Students will learn how to meet the developmental needs of young children, communicate and discipline effectively, and guide early behaviour. They will have practical experiences with infants, toddlers, and preschoolers, and will learn skills in researching and investigating questions relating to parenting.

HPW 3C Living and Working 1 credit
With Children - College Preparation

This course focuses on the well-being of children in families and community settings. Students will study child behaviour and child development in the context of relationships with parents and others in the community, and will learn through research and by observing and interacting with children. This course prepares students for further study of children, familiarizes them with occupational opportunities related to working with children, and introduces them to skills used in researching and investigating children's behaviour in response to others.

HRF 3O World Religions: Beliefs and 1 credit
Daily Life - Open

This course introduces students to the range and diversity of world religions, and examines how systems of belief affect individual lives and social relationships. Students will learn about a variety of religious beliefs, teachings, traditions, and practices. The course also helps students to develop skills used in researching and investigating topics related to world religions.

SOCIAL SCIENCES AND THE HUMANITIES

HSP 3M Introduction to Anthropology, Psychology, and Sociology - University/College Preparation 1 credit

This course introduces the theories, questions, and issues that are the major concerns of anthropology, psychology, and sociology. Students will develop an understanding of the way social scientists approach the topics they study and the research methods they employ. Students will be given opportunities to explore theories from a variety of perspectives and to become familiar with current thinking on a range of issues that have captured the interest of classical and contemporary social scientists in the three disciplines.

Social Sciences/ Humanities Cooperative Education Program

Social Science & Humanities courses will be of interest to students considering careers in teaching, social work, politics, law enforcement, journalism, and anthropology.

TECHNOLOGICAL EDUCATION - PART A BROAD-BASED TECHNOLOGY

In broad-based technology, courses in Grades 10, 11 and 12 that lead to apprenticeship or certification programs, or that are part of school-work transition programs, may be planned for up to 330 hours of scheduled instructional time. This additional instructional time allows for the practice and refinement of skills needed to raise the quality of students' performance to the levels required for certification, entry into apprenticeship programs, or participation in school-work transition programs. (It may also support articulation agreements for advanced standing or preferred entrance into specialized programs.) Instructional time may be increased by increments of 55 hours; for each additional 55 hours, students earn an additional half-credit. **A maximum of three credits may be earned for the successful completion of a 330-hour course.** The number of additional credits and the nature of the assignments to be completed must be established before the start of the course.

AUTO BODY

TAB 35 Auto Body - Workplace Preparation - Locally Developed 2 credits

This course familiarizes students with a broad range of career opportunities within the Auto Body Industry. Students will acquire design, fabrication and repair skills using a variety of trade specific tools, equipment and processes. Students will repair and finish vehicles incorporating knowledge and skills in such areas as collision restoration, component straightening and repair, materials preparation, and finishing materials to OEM standards (Original Equipment Manufacturer).

CONSTRUCTION TECHNOLOGY

TCJ 3C Construction Technology - College Preparation 1 credit

This course focuses on residential, commercial, industrial, and/or recreational construction. Students will learn about the tools, materials, equipment, and methods used in the light construction industry; structural analysis and design; presentation and working drawings; and mechanical systems. They will also estimate materials and labour costs, and study industry standards and building codes, health and safety issues, energy conservation, careers, and the impact of construction technology on society and the environment.

TECHNOLOGICAL EDUCATION - PART A BROAD-BASED TECHNOLOGY

TFH3E Hospitality and Tourism - Workplace Preparation 1 credit

This course focuses on food preparation and management, and hospitality and tourism activities, equipment, and facilities. Students will learn how to prepare, present, and serve food; plan, manage, and promote activities; and use the necessary equipment. Throughout the course, they will learn the fundamentals of providing high-quality service and customer satisfaction. Students will also study the occupational health and safety standards and laws regulating the hospitality and tourism industry, explore the industry's social and environmental impacts, and identify possible career paths.

COMMUNICATIONS TECHNOLOGY

TGJ 3E Communications Technology - Workplace Preparation 1 credit

This course examines communications systems and design and production processes in one or more of the areas of electronic, live, and graphic communications. Students will learn how basic communication systems function and will develop the knowledge and skills needed to assemble, repair, maintain, and test various systems. Students will also study industry standards and regulations and health and safety issues, and will explore careers, the importance of lifelong learning, and the impact of communications technology on society and the environment.

TGJ 3M Communications Technology - University/College Preparation 1 credit

This course examines communications systems and design and production processes in one or more of the areas of electronic, live, and graphic communications. Students will develop knowledge and skills relating to the assembly, maintenance, and repair of the basic and more complex components of a range of communications systems. Students will also study industry standards and regulations and health and safety issues, and will explore careers, the importance of lifelong learning, and the impact of communications technology on society and the environment.

Areas of Emphasis:

- TGJ 3ME — Communications Technology - Electronics
- TGJ3MT — Communications Technology - Tech. Theatre
- TGJ3MM — Communications Technology - Multi Media
- TGJ 3MP — Communications Technology - Photography
- TGJ 3MV — Communications Technology - Videography
- TGJ 3MG — Communications Technology - Graphics

TECHNOLOGICAL EDUCATION - PART A BROAD-BASED TECHNOLOGY

HORTICULTURE

THX 35 Horticulture - Workplace Preparation Locally Developed 1 credit

This course continues to build students' skill and knowledge of the horticulture industry, including both greenhouse production and outdoor crop production in the region. Students will study detailed concepts of plant science as they apply to landscaping, hydroponics, crop production and floral design. Students will develop transferable skills with tools and technology in the local industry.

MANUFACTURING TECHNOLOGY

TMJ 3C Manufacturing Engineering Technology - College Preparation 1 credit

This course focuses on design principles; electronic, pneumatic, and hydraulic control systems; and traditional and advanced manufacturing processes. Students will solve problems and make the critical decisions necessary to develop efficient production systems. They will also study the broad range of career opportunities available in the manufacturing sector and their educational requirements, and will research the scope of the manufacturing industry and the impact of its products on individuals, society, and the environment.

TMJ 3E Manufacturing Technology - Workplace Preparation 1 credit

This course helps clarify for young people the broad range of career opportunities available within the manufacturing sector. Students will acquire design and fabrication skills using a variety of materials, tools, equipment, and processes, and will construct products that adhere to design specifications and meet quality control standards. In addition to developing employability and technical skills, students will develop an understanding of the impact of the manufacturing sector on consumers, society, and the environment.

Area of Emphasis:

- TMJ 3 OW — Manufacturing Technology - Welding

TECHNOLOGICAL EDUCATION - PART A BROAD-BASED TECHNOLOGY

WELDING

TMW 35 **Welding -** **2 credits**
Workplace Preparation -
Locally Developed

This course will focus on the various types of fusion and non-fusion welding processes. Students will study oxy-acetylene welding and cutting, shielded metal arc welding, gas metal arc welding, flux core arc welding, plasma cutting, soldering, and brazing. Students will also be involved in the fabrication of projects utilizing various welding processes. This course will have a strong emphasis on correct work procedures and sound safety practices as it relates specifically to the welding trade. They will also study the broad range of career opportunities available in the welding field and the educational requirements. Students will also research the scope of the welding industry and the impact of its products on individuals, society, and the environment.

HEALTH AND PERSONAL SERVICES

TPA 3C **Health Care -** **1 credit**
College Preparation

This course focuses on human anatomy, body systems, and basic medical terminology. Students will learn about the relationship between lifestyle and personal health, and traditional and alternative methods of disease prevention and treatment. They will also investigate health care procedures and equipment in nursing, medicine, and dentistry; examine health and safety issues in health care and the environmental and societal impacts of biotechnology; and explore various career opportunities in the health care field.

TPE 3E **Hairstyling and Aesthetics -** **1 credit**
Workplace Preparation

This course provides students with opportunities to learn techniques in hairstyling and aesthetics that meet industry standards, using appropriate materials and equipment. Students will identify trends in the hairstyling and aesthetics industry; describe scientific and physical processes used in beauty services; learn to respect environmental, health, and safety laws; and explore career opportunities. The course may focus on either hairstyling or aesthetics, or may include a combination of both areas.

TECHNOLOGICAL EDUCATION - PART A BROAD-BASED TECHNOLOGY

TRANSPORTATION TECHNOLOGY

TTJ 3C **Transportation Technology -** **1 credit**
College Preparation

This course examines the infrastructure required for the operation of land, air, and/or marine vehicles. Students will design, construct, and modify vehicles, and apply safe work practices and procedures using current technology. They will also develop effective communication and teamwork skills when developing solutions to managing vehicle support systems; investigate the educational requirements for career opportunities in the transportation sector; and analyse the impact of transportation technology on society and the environment.

TTJ 3E **Transportation Technology -** **1 credit**
Workplace Preparation

This course examines the various types of land, air, and/or marine vehicles and vehicle systems found within the transportation sector. Students will acquire identification, troubleshooting, repairing, and testing skills that meet industry standards and government regulations. In addition to developing employability and technical skills, they will explore the broad range of career opportunities within this sector, and will examine the impact of the transportation sector on people, society, and the environment.

Area of Emphasis:

TTJ3ES — Transportation Technology - Small Engines

Technological Cooperative Education Program

All technological courses can be used in the Cooperative Education Program for students considering careers in a variety of fields such as electricity, tourism, plumbing, manufacturing and automotive technology.

OYAP Students may have the opportunity to begin an apprenticeship while earning these high school credits. For more information see page 12.

TECHNOLOGICAL EDUCATION - PART B COMPUTER STUDIES

COMPUTER AND INFORMATION SCIENCE

ICS 3M **Computer and Information** **1 credit**
Science - University/College Preparation

This course helps students examine computer science concepts. Students will outline stages in software development, define standard control and data structures, identify on- and off-line resources, explain the functions of basic computer components, and develop programming and problem-solving skills by using operating systems and implementing defined practices. As well as identifying careers in computer science, students will develop an understanding of the ethical use of computers and the impact of emergent technologies on society.

COMPUTER ENGINEERING

ICE 3E **Computer Engineering -** **1 credit**
Workplace Preparation

This course helps students develop a practical understanding of hardware and software operations, computer networks, and operating systems. Students will learn to use utility and application software and to install, maintain, and troubleshoot computer systems and networks following proper maintenance and repair procedures. In addition to developing an understanding of the ethical use of computers, students will identify engineering career opportunities and the skill sets required for the workplace, including good customer service practices.

ICE 3M **Computer Engineering -** **1 credit**
University/College Preparation

This course helps students understand how computer hardware and software are used to solve computer-related problems from an engineering perspective. Students will explore ways of connecting computers, interfaces, and peripherals using their knowledge of logic gates, computer components, peripherals, programming, networks, and operating systems. Students will also construct systems that use computer programs to interact with hardware, install and configure key computer hardware and software components, develop an understanding of the ethical use of computers, and explore careers in computer engineering.

TECHNOLOGICAL EDUCATION - PART B COMPUTER STUDIES

Computer Studies Cooperative Education Program

Computer courses will be of interest to students considering careers in engineering, computer programming, business, computer design and service, animation, information technology, software applications, system analyst, and telecommunications technology.