Central Technical School
grade 11 course calendar
2014 / 2015

725 Bathurst Street
Toronto Ontario M5S 2R5

telephone 416-393-0060
facsimillie 416-393-0067
student services 416-393-0070 ext. 20041
www.centraltechnicalschool.ca

find us on Facebook www.facebook.com/CTSSstudentServices
follow us on Twitter twitter.com/CTSstudentServ

principal Dr. S. Freeman

vice-principals Mr. J. Au
Mr. A. Cho
Ms. S. Kassam
Ms. J. Luck

curriculum leader, student services Mr. P. Diaz
table of contents

The Arts & Art Program 3
Co operative Education 4
Computer and Business Studies 5
English 6
English Language Learning 6
Guidance 7
Health & Physical Education 7
LAWS Program 8
Mathematics 8
Science 9
Canadian & World Studies 10
Social Sciences & Humanities 12
Special Education 12
Technological Courses & Majors 13

 denotes multi-credit course package
The Arts

**Dramatic Arts**. Grade 11. ADA3O1
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.
Prerequisite: none

**Dramatic Arts**. Grade 11. ADA3M1
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 analyze, 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 analyze the functions of playwright, director, actor, technician, and audience.
Prerequisite: Dramatic Arts, Grade 9 or 10, open

**Music - Instrumental Music**. Grade 11. AMI3M1
This is the continuation of Grade 10 Band that offers those with a solid background in instrumental music the opportunity to further develop their musical skills. The focus is on performing more intermediate repertoire and learning solo pieces. Theory, composition, and conducting will also be explored in this course. Repertoire is chosen from popular to traditional styles with the help of students.
Prerequisite: Instrumental Music, Grade 10 Open (AMI2O1)

**Music - Guitar**. Grade 11. AMG3M1
This course will focus on skills specific to the guitar at an intermediate level of difficulty. This is not a beginner course! Scales, technique, and music theory are studied. Repertoire is chosen from popular to traditional styles with the help of students. You should have either a credit in AMG2O1 or permission from the music department before enrolling in this course.
Prerequisite: AMG2O1

**Music – Steel Pan**. Grade 11. AMQ3M1
You will continue improving your steel pan playing skills. There will be an emphasis placed on playing music in three or more harmony parts. Technique, skills, and music theory are studied in greater detail. You will be required to perform for audiences. Repertoire is chosen from popular to traditional styles with the help of students. Previously learned repertoire will be reviewed.
Prerequisite: AMQ20

**Music- Vocal Music**. Grade 11. AMV3M1
You will continue singing various styles of music. There will be an emphasis placed on singing music with three or more harmonic lines. Proper breathing technique and tone production as well as regular warm up activities will be used to help promote a healthier singing voice. Repertoire is chosen from popular to traditional styles with the help of students.
Prerequisite: Music, Grade 9 or 10, Open

**Music - Repertoire**. Grade 11. AMR3M1
In this program you will have the opportunity to earn an extra credit for participation in an instrumental or vocal ensemble. This course is a continuation of the Grade 10 Repertoire course and is particularly attractive to students who wish to continue their study of music but have full timetables. This course will appear on your timetable in the period 3 slot, although the actual participation times will vary between lunchtime and after school rehearsals. Repertoire is chosen from popular to traditional styles with the help of students. You can earn this credit whether you are involved in one of the regular music courses or not.
Prerequisite: Any Grade 10 Music course
Music – Keyboard Class. Grade 11. AMK3M1
In this class you will continue to develop piano skills at your own pace in a group setting. You will work both alone and in groups on your keyboard. The emphasis is on building technique, advancing your playing skills, and studying music theory at a more advanced level. Repertoire is chosen from popular to traditional styles with the help of students. Prerequisite: AMK2O1

Visual Arts. Grade 11. University/College. AVI3M1
If you have taken art in grade nine or ten then you will be ready for an even more interesting grade eleven course! You will further develop your skills and knowledge in visual arts through various mediums, materials and studio projects. Prerequisite. Visual Arts, Grade 9 or 10, Open

Visual Arts Package. Grade 11. University/College. +AP3M0. 4 credits
This program consists of 4 credits. All credits are offered at the university/college level (designated by M in the course code). It is mandatory that students choose all course codes in the Grade 11 Art package. This course of study is a full year program and is a prerequisite for the Grade 12 Specialized Studio Art Program. This package cannot be split. Prerequisite: +AP2O0

Drawing and Painting. 1 credit
Skills and techniques in life drawing and painting will be the focus of this course. Through creative problem solving, students will develop personal imagery and expression.

Media Arts. 1 credit
This course focuses on the development of media arts skills through the production of art works involving traditional and emerging technologies. Students will also learn about traditional photography as an expressive art form. The history of art as it relates to photography will be included and the role of digital imaging and manipulation may be included in the studio projects.

Printmaking. 1 credit
In this course traditional, contemporary and experimental printmaking processes will be taught. Discussions and critiques will be enriched through the study of historical and contemporary artists’ works and application in studio projects. Grade Twelve Art Studio Program.

Ceramics. 1 credit
Students will use a variety of tools and materials with clay to produce art works with personal expression. Through the study of traditional and contemporary artists and media, students will come to understand that ceramics is a versatile art form.

Co-operative Education

Individual Cooperative Education @CEAC1, @CEAC2, @CEAC3, @CEAC4, (Half-day and Full-day programs available)
Cooperative Education is a planned learning experience for which credits are earned. The course integrates classroom theory and learning experiences at a workplace and enables students to apply and refine the knowledge and skills acquired in a related curriculum course. Workplace experience related to Science, Mathematics, English, E.S.L, Social Sciences, Health Sciences, Technological Studies, Computer Science, Art, Health and Physical Education, Performing Arts and Guidance is available. After the pre-placement orientation period, student progress is assessed and monitored at the work site by the cooperative education teacher. Further integration of classroom and workplace learning occurs during scheduled in-school sessions (7 hours per credit)
Prerequisite: Student application and teacher interview is required. Acceptance to the program is based on credits earned, attendance, punctuality, demonstrated maturity and appropriateness of the request.
Accounting Essentials . Grade 11 . Workplace Preparation . BAI3E1
This course introduces students to the accounting cycle of a service business. Students will use computer applications 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. Prerequisite: none

Entrepreneurial Studies . Grade 11 . College Preparation . BDI3C1
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 personal goals by satisfying the needs of others. Students will learn about values, traits, and skills most often associated with successful entrepreneurial activity. Prerequisite: none

Financial Accounting Fundamentals
Grade 11 . University/College Preparation . BAF3M1
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 ethics and current issues in accounting. Prerequisite: none

Information and Communication Technology: Digital Environment
Grade 11 . Open . BTA3O1
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. Prerequisite: none

Introduction to Computer Programming . Grade 11 . College Preparation . ICS3C1
This course introduces students to computer programming concepts and practices. Students will write and test computer programs, using various problem-solving strategies. They will learn the fundamentals of program design and apply a software development life-cycle model to a software development project. Students will also learn about computer environments and systems, and explore environmental issues related to computers, safe computing practices, emerging technologies, and postsecondary opportunities in computer-related fields. Prerequisite: None

Introduction to Computer Science . Grade 11 . University Preparation . ICS3U1
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. Prerequisite: none, ICS2O1 strongly recommended
English

English . Grade 11 . University Preparation . ENG3U1
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: English, Grade 10, Academic

English . Grade 11 . College Preparation . ENG3C1
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 literary 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. The course is intended to prepare students for the compulsory Grade 12 college preparation course.
Prerequisite: English, Grade 10, Applied or Academic

English . Grade 11 . Workplace Preparation . ENG3E1
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: Any grade 10 English course

English Language Learning

English Language Learning . Level 4 . ESLDO8
This course prepares students to use English with increasing fluency and accuracy in classroom and social situations and to participate in Canadian society as informed citizens. Students will develop the oral-presentation, reading, and writing skills required for success in all school subjects. They will extend listening and speaking skills through participation in discussions and seminars; study and interpret a variety of grade-level texts; write narratives, articles, and summaries in English; and respond critically to a variety of print and media texts.

English Language Learning . Level 5 . ESLEO8
This course provides students with the skills and strategies they need to make the transition to college and university preparation courses in English and other secondary school disciplines. Students will be encouraged to develop independence in a range of academic tasks. They will participate in debates and lead classroom workshops; read and interpret literary works and academic texts; write essays, narratives, and reports; and apply a range of learning strategies and research skills effectively. Students will further develop their ability to respond critically to print and media texts.

ELL Option Courses
In addition to their English language courses, students are supported in their language development by options in a variety of subject areas. These sections allow the teacher to focus on the content area while providing added language support.
ELL sections of the following courses are offered to senior level students:
  • Canadian History (CHC2P8) see Grade 10 Course Calendar
English Presentation and Speaking Skills. EPS3O8
Are you worried about speaking in class? Do you struggle with English pronunciation? This course introduces English language learners to the knowledge and skills required to plan and make effective presentations and to speak effectively in both formal and informal contexts. The course will emphasize using such forms as reports, speeches, debates, discussions, storytelling, interviews, and multimedia presentations. Students will view and analyse the content and characteristics of effective presentations, convincing speeches and the techniques of effective speakers. They will also learn how to listen effectively listen and take notes. In addition, students will design and rehearse presentations for a variety of purposes and audiences. Students will also be introduced to the International Phonetic Alphabet and taught how to use it to improve their pronunciation. Finally, students will assess the effectiveness of their own and others’ presentations.

Leadership and Peer Support. GPP3O8
This course prepares and motivates students to provide leadership and assistance to others in their schools and communities. Students will develop skills in communication, interpersonal relations, leadership, teamwork, and conflict management; and apply them in roles such as tutoring, mentoring, and student council involvement. Students will also learn the value and complexity of social diversity, while acquiring an appreciation of the importance of contributing to their communities and helping others throughout their lives. Students taking this course will integrate further into the school community and learn how to foster this in other English Language Learners.

Guidance and Career Education

Leadership & Peer Support. Grade 11 Open. GPP3O1
This course prepares students to act in leadership and peer support roles. They will assist in designing and implementing a plan for contributing to their school; develop skills in communication, interpersonal relations, teamwork, and conflict management; and apply those in leadership and peer support roles. Students will examine group dynamics and learn the value of diversity within groups or communities. Students will role model positive student behaviour at CTS. Students will deliver the events and services listed on the CTS Student Life Calendar as well as other duties as assigned that meet the two goals of the CTS Student Government. Prerequisite: senior students & school spirit!

Health and Physical Education

Healthy Active Living Education. Grade 11 Open. PPL3O1
Continue being active, having fun, getting fit, and staying healthy! In this course participation is the key! You will get to choose from a variety of enjoyable physical activities such as: volleyball, soccer, basketball, floor hockey, lacrosse, European handball, ultimate frisbee, golf, archery, aquatic games, snorkeling, and many more that have the potential to engage your interest throughout your life. Take advantage of our three gymnasiums, state-of-the art fitness facility, and 25 yard swimming pool! You will be given the opportunity to practice goal setting, decision making, social, and interpersonal skills. You will also study the components of healthy relationships, reproductive health, mental health and personal safety. Prerequisite: none

Large Group Activities: Basketball Focus. Grade 11. Open. Co-ed. PAL3O8
Want to learn about making the “perfect jump shot, lay up or 3 point shot”? How about learning better ways to play defence, learn and create different offensive strategies and how to referee games
the way the pros do? This Basketball focus course can teach you this and much more. Student learning will include the application of movement principles to refine their basketball skills and participation in a variety of activities that enhance personal competence in strategy, rules, and general basketball knowledge. Student learning will also include fitness, health and the examination of issues related to healthy living. Reference should be made to the Healthy Active Living Education open course descriptions for Grade 11 for health areas of study.

**Prerequisite:** senior students

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**Personal Fitness and Fitness Activities** . Grade 11 . Open . PAF3O1

Are you interested in keeping fit? Do you wish to explore different forms of exercise other than sport? Would you like to know how to train your body in additional ways other than simply through weight training? Then this is the Personal Fitness course for you. This course will engage you in a wide variety of training techniques aimed at full body health. Activities such as yoga, Pilates, circuit training, resistance training, aerobics, aqua fit, and stability ball training will allow the student to gain a greater understanding of fitness and the large variety of activities available today. You will set personal fitness goals, and design and develop your own personal fitness program. In addition, you will learn the effects of stress on the body, mental health, and study the components of healthy relationships.

**Prerequisite:** none

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**LAWS Program**

**LAWS Program** . Grade 11 . College/University Preparation . +LW3U0 . 2 credits

This package is a continuation of the grade 10 LAWS Program. Students will take Grade 11 Law (CLU3M1) and Grade 11 English (ENG3U1). In conjunction with the Faculty of Law at the University of Toronto, students will go on field trips, attend workshops, have guest speakers and do mock trials. The Forensic Science course (IDC301) is an option for LAWS students.

**Strongly recommended:** +LW2DP

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**Mathematics**

**Functions** . Grade 11 . University Preparation . MCR3U1

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 applications 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.

This course prepares students for MDM4U1, MHF4U1 or MCT4C1.

**Prerequisite:** MPM2D1

**Functions and Applications** . Grade 11 College/University Preparation . MCF3M1

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 modeling 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. This course prepares students for MDM4U1, MCT4C1 and MAP4C1.

**Prerequisite:** MPM2D1 OR MFM2P1/9

**Mathematics for Everyday Life** . Grade 11 . Workplace Preparation . MEL3E1

This course enables students to broaden their understanding of mathematics as it is applied in important areas of day-to-day living. 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.

**Prerequisite:** One previous math credit.
**Personal Finance. Grade 11. College Preparation. MBF3C1**
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; develop their ability to reason by collecting, analyzing, 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: MFM2P1/9**

**Sciences**

**Biology. Grade 11. University Preparation. SBI3U1**
If living organisms fascinate you, then this is the course to take! Upon completion of this course you will have explored the entire living spectrum: from fire-resistant plants 84 metres tall and large enough to build a two-lane road to fungi that grow between your toes; from bacteria that live in your intestine to viruses so deadly that their very presence in a crowded room spells doom; from watermelon snow protists living in the sub zero climate, to animals like you and me. Genetics, which involves predictions of what your children may look like, is also studied. Want to know how to keep your body healthy? Food digestion, respiratory fitness, and the functioning of the heart are only a few human systems that are explored in this course. For a solid foundation in the Life Sciences in preparation for university-bound studies, this is the course to take. Students will study evolution, 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 scientific investigation skills. **Prerequisite: SNC2D1 or SNC2P1/9**

**Biology. Grade 11. College Preparation. SBI3C1**
Saturated fats, unsaturated fats, and trans-fats – which one is the healthy fat? Can stem cells cure diabetes, Parkinsons, molecular degeneration and other disorders? Why are bacteria becoming resistant to antibiotics and could this mean a global scale plague? The answers to the above questions, as well as many more relating to the processes involved in biological systems, will be explored in this course. 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 genetics. 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 within the college pathway. **Prerequisite: SNC2D1 or SNC2P1/9**

**Chemistry. Grade 11. University Preparation. SCH3U1**
Are you thinking of pursuing a career in the sciences? Perhaps you have your mind set on being a doctor, an engineer or even a forensic scientist. If so, this course is the first stepping stone towards post-secondary education in chemistry. You will explore many exciting topics in a very hands-on, laboratory rich manner. Topics include, how chemical systems behave, how chemistry is used in developing new products and the processes that affect our lives and our environment. This course focuses on the concepts and theories that form the basis of modern chemistry. Students will study the behaviour of solids, liquids, gases, and solutions; investigate changes and relationships in chemical systems; 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. For a solid foundation in chemistry, in preparation for further studies in chemistry within the university pathway, this is the course to take. **Prerequisite: SNC2D1**
Environmental Science. Grade 11. Workplace Preparation. SVN3E1
All 200 billion birds, 400 billion trees, 10 quintillion insects, 6.8 billion people, and everything else alive on Earth are connected together in unbelievable ways. In this course, you will learn about how pollution and human activity is affecting all life on Earth, and what you can do to fix it. You will learn about what happens to the garbage we produce, how recycling works, how much energy we use and how we can use less of everything. You will also learn about how to look after plants and forests, including the trees around our own property! (Do you know how many there are?) Learn the skills required to save the Earth – take Environmental Science! Prerequisites: Any grade 9 science course

Introductory Forensic Science. Grade 11. College/University Level. IDC 3O1
Are you a CSI fan? Do you like mysteries? Have you ever wondered how science can be used to solve crimes? If so, then this is the course for you. Through research, inquiry and activity-based formats, Introductory Forensic Science introduces students to the fundamentals of forensic science. Participants will learn modern, scientifically-based investigation techniques (i.e. evidence collection, DNA fingerprinting, blood and fibre analysis, fingerprinting) culminating in the design and analysis their own crime scenes. 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. Forensic science encompasses many scientific disciplines including biology, chemistry, physics and earth and space science. Students will explore a range of topics, including crime scene analysis and the types of evidence found at a crime scene; fingerprint use and analysis; trace evidence analysis including hair and fibres; serology and blood spatter analysis; document and handwriting analysis; and an introduction to DNA fingerprinting. Students will use diverse resources and research methods to explore the history and development of many forensic science techniques. Emphasis will be placed on the application of critical thinking skills and the use of the techniques learned in this course as it applies to forensic science. As well, the role of science and technology in the field of forensic science and forensic science in the media will be examined. Prerequisite: SNC2D1 or SNC2P1/9

Physics. Grade 11. University Preparation. SPH3U1
Have you ever wondered how fast a jumbo jet is moving when it takes off or how a gentle breeze can bring down a suspension bridge? If so, then physics is the course for you. Physics is the study of the natural world. It is a challenging and rewarding subject that will test your common sense notions of the environment you live in. Knowledge in physics is essential if you are thinking of becoming a pilot, a doctor, an engineer or an electrician, to name a few professions that require physics. Furthermore, the analytical tools learned in a physics course can be applied with great success to the fields of economics and law.
This course will develop the students' understanding of the basic laws of physics. Students will explore such topics as classical mechanics, energy, wave behaviour, sound, optics and electric circuits. Students will also develop scientific-inquiry skills by verifying well-established physical laws through experimentation. Finally students will analyze the interrelationship between physics and technology, and consider the impact of the technology on society and the environment. Prerequisite: SNC2D1

Canadian & World Studies .................................................................

Travel and Tourism. Grade 11. Open. CGG3O1
Are you thinking of aiming for a career in Hospitality and Tourism? Do you like studying major tourism destinations like the Caribbean, Europe, Hawaii and world class cities like NY, LA, Tokyo, Paris and Buenos Aires? Are you interested in learning more about how travel agents put packages together and how tourists get good deals on world or regional travel? What impact would a lot of tourists have on beautiful natural places of the world like beaches, lakes, and forests? What is being done in these places to preserve them for future visitors? Explore these questions through online research, geographic analysis, maps, graphs, and other geography tools. Prerequisite: CGC1D1 or CGC1P1
Aboriginal Issues in Canada. Grade 11. University/College Preparation. NDA3M1
Boozhoo, Anii, Wachiya, Bienvenue, Welcome! to Central Tech’s newest course in Canadian Studies. What does it mean to be “aboriginal” in Canadian society? How are Aboriginal communities and identities linked to the physical environment? What can we learn from Traditional Ecological Knowledge, such as using plants for non-invasive medical treatments? Of the 50 to 52 aboriginal languages spoken in Canada today, what is being done to preserve them? What strategies are helping recover the “lost generation” who experienced the residential school system in Canada? What is happening to the treaties negotiated by First Nations and the Canadian government? What is being done to help aboriginal communities with inadequate health care, housing, clean water, or education? Explore these questions through a range of academic and hands-on tasks, including: self-reflection, online research, interview, field study, class trips, guest speakers, traditional teachings, and seminar. Students of both aboriginal and non-aboriginal backgrounds are encouraged to apply.

Prerequisite: CHC2D1 or CHC2P1

The Individual and the Economy. Grade 11. University/College Preparation. CIE3M1
Anybody who is successful in business and gets rich understands financial decision making. Wonder where the Microsoft and Apple leaders began their journey to business? Learn how Economics plays a role in your life decisions. In this course you will be introduced to basic economic concepts such as scarcity, opportunity costs, production possibilities, and economic systems. You will examine the role of businesses, government and individuals – and the influences they have on you as an individual. Begin your journey to financial success!

Prerequisite: Grade 10 History, Applied or Academic

World History to the 16th Century
Grade 11. University/College Preparation. CHW3M1
This course investigates the history of humanity from earliest time to the 16th century. Students will analyze diverse societies from around the world, with particular regard to the political, cultural, and economic structures and historical forces that form the foundation of the modern world. They will examine the influence of selected individuals and groups, as well as of particular innovations, and will develop skills of historical inquiry, organization, analysis, and communication.

Prerequisite: Grade 10 History, Applied or Academic

Understanding Canadian Law. Grade 11. University/College Preparation. CLU3M1
Do you have strong opinions? Are you interested in how the justice system works, and how it affects you? In this class you will discuss and debate laws, analyse relevant legal issues, and take a stand on these issues. Now, imagine debating these issues with classmates in our very own courtroom here at CTS! You will also explore important Supreme Court of Canada landmark cases that have left their imprint on the Canadian justice system. You will study substantive areas of the law including civil and human rights, criminal law, and dispute resolution. There is also the opportunity to conduct legal research on controversial issues and present findings to the class. So, if you are someone who has strong opinions and are interested in participating in debates, class discussions, and mock trials, then take this course. It will provide you with a practical working knowledge of our legal system!

Prerequisite: Grade 10 History, Applied or Academic

The History, Sociology and Techniques of Pre-Modern Warfare
Grade 11. Open. IDP3O1
A history of hand-to-hand combat, and of hand-held weapons, surveying various global regions and eras, from the ancient world to the dominance of gunpowder, and including aboriginal warfare from multiple continents. Included is the study of social and economic factors which lead to respective philosophies of warfare, and systems of tactics and weaponry, and how these inter-related functions change over time. An interdisciplinary component, focussing on Physical Education, provides a safe and sport-oriented introduction to basic hand-to-hand self-defense techniques (e.g. grappling and striking), and to hand-held weaponry (e.g. basic sword, stick, and staff techniques, in a non-contact context, with practice/dummy weapons).

Prerequisite: Senior Students.
Social Sciences & Humanities

Introduction to Anthropology, Psychology, and Sociology
Grade 11 . University Preparation . HSP3U1
This course provides students with opportunities to think critically about theories, questions, and issues related to anthropology, psychology, and sociology. Students will develop an understanding of the approaches and research methods used by social scientists. They will be given opportunities to explore theories from a variety of perspectives, to conduct social science, and to become familiar with current thinking on a range of issues within the three disciplines.
Prerequisite: The Grade 10 academic course in English or the Grade 10 academic history course.

Introduction to Anthropology, Psychology, and Sociology
Grade 11 . College Preparation . HSP3C1
This course introduces students to theories, questions, and issues related to anthropology, psychology, and sociology. Students learn about approaches and research methods used by social scientists. They will be given opportunities to apply theories from a variety of perspectives, to conduct social science research, and to become familiar with current issues within the three disciplines.
Prerequisite: none, recommended Grade 10 English

World Religions . Grade 11 Open . HRF3O1
Since humans looked up and saw the stars they have been asking questions about what is out there, where we come from, and where we are going. If you want to learn about how religions have answered these fundamental questions while, at the same time, influenced how so many of us live our lives, then this is a very good course for you. As the world becomes more of a shared and crowded place, understanding the driving forces behind the world’s major religions becomes more and more important. Where are we really going? Investigate how religions such as Hinduism, Buddhism, Judaism, Christianity, and Islam all have very close answers to this heartfelt question.
Prerequisite: none

Parenting . Grade 11 . Open . HPC3O1
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 learn skills in researching and investigating questions to parenting.
Prerequisite: none

Philosophy: The Big Questions . Grade 11 . Open . HZB3M1
Why, why, why?.....Because! Is this answer simply not enough for you? This course searches for answers to The Big Questions, such as: What is a person? What is a soul? What are good and evil? What is a just society? How do we know what is beautiful? What is human knowledge? Do we really exist at all? Students will learn critical thinking skills in evaluating philosophical arguments related to these questions, as well as skills used in researching and investigating various topics in philosophy.
Prerequisite: none

Special Education

Advanced Learning Strategies . Skills for Success after Secondary School
Grade 11 . Open . GLE3O9
This course improves students’ learning skills, preparing them to make successful transitions to work and post-secondary education and become independent, life long learners. Students will learn how to assess their learning abilities and use critical reading, time management, and other techniques for promoting effective learning. In addition, they will investigate learning requirements for employment and post-secondary education or training and develop plans for learning after secondary school.
Prerequisite: IEP and recommendation of Principal
Communications Technology

Stage Crew Production. Grade 11. University/College Preparation. TGR3M1
The show must go on! Fitting words for those who are interested in stage crew production here at CTS. A new course designed to instruct you in the behind the scenes “hands on” environment of live stage and event production. You’ll learn how to handle wired and wireless microphones, basic audio production, lighting, set design, electricity, video projection and stage/live event setup and strike down. There is no pre-requisite for this course other than the evaluation will be consistent with performance credits like music, where attendance would be mandatory for before/after school, lunch and evening presentations.

Prerequisite: none

Graphic Arts. Grade 11. College/University Preparation. +PR3M0 (2 credits)
Are you interested in Graphic Design? Are you thinking of becoming a Graphic Designer? If you answered yes to these questions, then you should be taking this fast-paced introductory 2 credit Graphic Design package. In this program you will learn the basics of graphic design and layout using the industry standard page layout programs, Quark, Adobe Indesign and Illustrator. You will also learn the basics of photography and use high-end digital SLR cameras to take photographs and then manage, catalog, edit and manipulate the images using Adobe Photoshop and Bridge. You will design and print, advertisements, calendars, posters and booklets, and will learn about the different methods of printing and how to properly prepare your design for printing.

Prerequisite: TGR2O1 recommended, but not required.

Interactive New Media and Web Design
Grade 11. University/College Preparation. TGI3M1
Create your own website! This introductory course focuses on web design and the creation of content for the internet. Students will design, explore, and create electronic, graphic, recorded and audio-visual projects independently and in project teams. Introductory projects in Adobe Photoshop, Adobe Flash and Adobe Dreamweaver as well as other fun on-line and interactive software are all aimed at the creation of original content for the world wide web. Learn the language of the internet and as a final project create your own interactive web site! Most of the work is done in class.

Prerequisite: ICS2O1 recommended, but not required.

Photography and Digital Imaging
Grade 11. University/College Preparation. TGP3M1
This is a fun, photo-assignment oriented course that builds on the skills and knowledge in the grade 11 course, and will help prepare you for the communications industry. This course is a practical, integrated activity subject where you will use cameras and lenses as tools to accumulate a year-end portfolio of photography. Using different lighting techniques and darkroom processes, your photos will be conceptually executed; thus building knowledge, skills, and values.

Prerequisite: none

Photojournalism. Grade 11. University/College Preparation. TGJ3M1
Do you want to work on the school yearbook? Do you like taking photographs? Are you interested in Graphic Design? If you answered yes to these questions then you should be taking this introductory communications course. In this course you will learn the basics of photography, digital image manipulation, and layout and design, while working on the production of school yearbook. Using high-end digital SLR cameras you will take photographs and learn how to manage, catalog, edit and manipulate the images using Adobe Photoshop and Bridge. You will then learn the basics of graphic design and layout using the industry standard page layout program, Adobe Indesign, and use the photographs to design and prepare layouts for the school yearbook.

Prerequisite: none
TV, Video and Movie Production . Grade 11 . University/College Preparation . TGV3M1
“Lights, camera, action!” The Grade 11 Video production class is where you will acquire all the skills and knowledge used to create a video or movie. You will explore the technical and operations side of the industry, which includes lighting theory, lighting/grip, camera operation, tripods, digital theory, electrical/gaffer, shot type and structure, recording methods, media, audio, microphone use, storyboarding, scriptwriting, and design. You will also study industry regulations, and health and safety issues. You explore careers, the importance of lifelong learning, and the impact of communications technology on society and the environment. In this program you will assist the Stage Crew with associated technical functions as part of the curriculum. You will use small video projects in the classroom setting to build your skill base in the program along with the use of Corel software to design DVD packaging.

Prerequisite: none

Computer Studies

Computer Engineering . Grade 11 . University/College Preparation . TEJ3M1
If you want to know more about how the Internet works, or what makes your computer tick, or how to perform computer upgrades, then this course may be for you. You will assemble computers and small networks by installing and configuring hardware and software. You will learn how computers connect to websites and how networks connect with each other. You will discover the electronics within the computer that enable it to function. Furthermore you will develop an awareness of related environmental and societal issues, and will learn about college and university programs leading to careers in computer technology.

Prerequisite: none

Electronics . Grade 11 . University/College Preparation . TEL3M1
This course focuses on fundamental electronic circuit principles: theory, design and fabrication. Students will develop circuit analysis techniques applied to direct current (DC) circuits. Concepts include: soldering techniques as applied to circuit board fabrication, resistor circuits, digital gates and semiconductor devices. Students will learn about tools, materials and equipment used in the fabrication of printed circuit board based “take home” projects such as: flip/flop display, continuity tester and LED based bike flasher. Test equipment will be used to troubleshoot any faulty circuits. The majority of class time will be “hands on” developing these industry standard skills.

Prerequisite: TEJ2O1 recommended, but not required.

Construction Technology

Custom Woodworking . Grade 11 . Workplace Preparation . TWJ3E1
Would you like to make a beautiful piece of furniture? Here at Central Tech, you can take a course where you can learn the basics of furniture-making and in the process create your own furniture piece. You will learn about the hand tools that furniture-makers use, how to care for them and the safe methods for their use. In order to shape and finish the wooden parts that together will make up your piece, you will need to learn the safe use of many standard wood shop machines – the jointer, table saw, radial-arm saw, band saw and shaper, just to name a few. You will also learn about abrasive papers for sanding down your project, how to create beautifully smooth surfaces and joinery so that the parts fit properly together. Finally, you’ll learn about wood stains and finishes so you can put a shiny glass-like coat on your project before you take it home. No previous experience is necessary – just the desire to make something beautiful!

Prerequisite: none

Construction Engineering Technology . Grade 11 . College Preparation . TCJ3C1
Would you like to be prepared to work with the technology of the future? In this course you will learn about renewable energies. You will study the fundamentals photovoltaic (solar) and wind energy. The course will begin with basic electrical wiring and codes, which will then lead into their relation to solar and wind energy. You will learn to install solar panels and wind turbines, and study the theory behind these technologies.

Prerequisite: none
Heating and Cooling. Grade 11. Workplace Preparation. TCH3E1

Tired of hurting your back shoveling snow off your driveway, slipping and falling on the hard ice? You will learn how a snow melting systems works and many other different methods of heating a home. In this course the fundamentals of hydronic heating, forced air and air conditioners are explored. You will have an opportunity to install boilers and piping systems for a residential building. You will learn the importance of safety and safe work practices including the proper use of tools and machines (cutters, wrenches, taps, dies, etc.) used by heating installers. You will also learn to understand the appropriate use of materials (Sheet metal, black iron, copper pipes, plastic water piping, etc.) used in the trade and demonstrate procedures and processes (layout, cutting, assembly, etc.) used in heating projects. You will learn and identify career opportunities in the Heating and construction industries.

Prerequisite: none

Construction Specialist High Skills Major (SHSM)

The Specialist High Skills Major is a Ministry of Education approved specialized program that allows students to focus their learning on a specific economic sector (in this case construction) while meeting the requirements for the Ontario Secondary School Diploma (OSSD). It is meant to assist students in their transition from secondary school to apprenticeship training, college, university or the workplace.

The SHSM is a bundle of 11 credits over grades 11 and 12 that includes:

- 5 construction credits
- 4 academic credits which have units that are linked to construction
- 2 co-operative education credits in a construction related field
- construction recognized certifications such as first aid and CPR
- experiential and "reach ahead" activities that relate to construction
- an Ontario Skills Passport (essential skills and work habits)

Any student enrolling in a technological major in plumbing, electrical, woodworking or in a grade 11 Technological Design- Drafting is eligible for the SHSM.

Electrical. Grade 11. +HS3CE. 3 credits

Do you prefer hands-on learning? Interested in the basics of wiring? Why not have some fun and, at the same time, see if you have what it takes to become an electrician. This three credit course offers you the basic knowledge of residential wiring installations which includes: Wiring of plugs, switches, stoves and dryers, electrical heaters, door bells and main panels. You will even learn how to bend conduit, and also about the various types of wires and their uses. You will explore code requirements and how they apply to various job situations such as basements, or complete homes. Also included in this package is basic blueprint reading, where you will learn to identify various architectural, mechanical and electrical symbols. Finally you will be asked to design and estimate electrical requirements for your dream house!

Prerequisite: TCJ2O1 recommended, but not required.

Residential Plumbing. Grade 11. +HS3CP. 3 credits

The knowledge of plumbing is always in demand. Every home and building relies on plumbing to pipe fresh water in—and pipe waste water out. This course is an introduction to the plumbing technology/trade. You will learn the importance of safety and safe work practices including the proper use of tools and machines (cutters, wrenches, taps, dies, etc.) used by plumbers. You will learn to understand the appropriate use of materials (ABS, black iron, copper pipes, plastic water piping, etc.) used in the trade and demonstrate procedures and processes (layout, cutting, assembly, etc.) used in plumbing projects. You will work on basic plumbing projects like installing working 2-3 piece washrooms, kitchens sinks, laundry tubs and service repair work. You will also be given the basic understanding of career opportunities in the plumbing and construction industries. This program will give you a solid education in plumbing, and insight into many different areas of plumbing industry. This course will give you the opportunity to continue on in the grade 12 plumbing program.

Prerequisite: TCJ2O1 recommended, but not required.
**Woodworking . Grade 11 . +HS3CW . 3 credits**

Have you ever wondered why Mike Holmes has so many bad construction projects to fix up and "make it right"? Do you want to know how houses are put together, the right way, and how they should conform to the Ontario Building Code? In the Grade 11 Carpentry High Skills Major, you will learn about many of the tools and techniques that the professionals use, from how to sharpen and keep your tools in good condition, to learning about the parts and the uses of woodworking machines. During the program, you will be instructed on the safe use of hand tools, hand held power tools such as the circular saw, jig saw, router, electric hand plane, as well as instruction on stationary woodworking machines such as the table saw, radial arm saw, jointer, thickness planer, band saw, and drill press. So what will you be building and learning? Well, how about a scale model of a four room bungalow built to specifications provided by your instructor, while in the process, receiving informational lessons on layout, form work, floor framing, exterior and interior wall framing, roof framing, as well as wall and roof coverings? Along with the scale model project, you will be take part in full-scale construction projects. Past major projects have included framing buildings for a summer camp and creating the interior for a local community centre. You will also receive instruction in applicable technical mathematics, some blueprint reading and a research project on a construction related career.

This program is of interest to anyone who plans to enter college in any construction related management or engineering field, to those thinking of beginning a carpentry apprenticeship, or to those who have an interest and who wish to be able to do carpentry work on their own home. Students who successfully complete this program often continue in the carpentry/woodworking major with the grade 12 +HS4CW course which culminates in a cooperative education experience.

**Prerequisite:** TCJ2O1 recommended, but not required.

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**Health and Personal Services ...................................................................**

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**Hairstyling and Aesthetics . Grade 11 . Workplace Preparation . TXJ3E1**

Are you a budding Hair Stylista? Do you get SOS calls from your friends when their having a hair catastrophe?? If you’ve answered yes to the above questions, we have the course for you! This course is an introductory Grade 11 single credit. This course will benefit those students interested in obtaining basic professional techniques. Course units will include the following: History of cosmetics, intro to hair colour, current marketing trends and cultural norms. Entrepreneurial skills, as related to the cosmetics industry, will also be examined. Practical units will include cosmetics and applications, and basic colour procedures. While you won't be quite ready to be "stylist to the Stars", you will be well on your way to understanding professional techniques.

**Prerequisite:** TXJ201 recommended, but not required.

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**Hairstyling and Aesthetics . Grade 11 . Workplace Preparation . +CO3E0 . 3 credits**

Are you the next "stylist to the Stars"? Do you see yourself in a stylish salon surrounded by beautiful hair? No need to look any further. We are here to help you accomplish your dreams. This intensive course provides you with all the skills needed to pursue a career in Hair Design. You will identify trends in hairstyling and aesthetics using industry appropriate materials and equipment, and describe scientific and physical processes used in modern beauty services. Additionally, this course will focus on environmental issues, health and safety laws and explore career opportunities. This course will focus on hair design, but may include a combination of both hairstyling and aesthetics. You will also have the opportunity to develop your portfolio.

**Prerequisite:** TXJ201 strongly recommended, but not required.
**Health Care . Grade 11 . College Preparation . TPJ3C1**

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 health and safety issues, environmental and societal issues related to health care, and career opportunities in the field.

Prerequisite: none

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**Hospitality and Tourism**

**Hospitality and Tourism . Grade 11 . College Preparation . TFJ3C1**

Do you want to know what is happening on Food TV? This single credit course helps you understand the features, trends and expectations of the Hospitality industry. You will acquire skills related to preparing and presenting food, principles of nutrition, health and safety standards; and the importance of customer service. You will also learn about career opportunities in the tourism industry and the individual personality traits and skills important for success in these careers.

Prerequisite: none

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**Baker/Patissier . Grade 11 . Workplace Preparation . TFB3E**

Do you want to be CTS’s very own Cake Boss? Have you got a creative flair? Do you watch the Food Network? This baking course will teach you all the techniques required to bake and decorate many interesting sweets. This course will provide students with an in-depth knowledge of the baking industry. Skills in dessert preparation presentation, decoration, breads, rolls, pies, cakes, wedding cakes, pastries and fillings are covered in the course curriculum. A comprehensive overview of industry standards, shop glossaries and commercial practices will be covered in this course with a strong emphasis placed on 21st century learning/workplace skills and the realistic demands of the hospitality industry. The students will gain real world experience in order to support their future success.

Prerequisite: None.

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**Hospitality Specialist High Skills Major (SHSM)**

The Specialist High Skills Major is a Ministry of Education approved specialized program that allows you to focus your learning on a specific economic sector (in this case the Hospitality service) while meeting the requirements for the Ontario Secondary School Diploma (OSSD). It is meant to assist you in your transition from secondary school to apprenticeship training, college, university or the workplace.

The SHSM has five components in a bundle of 10 credits over grades 11 and 12 that includes:

- 5 Hospitality credits,
- 3 academic credits which have units that are linked to Hospitality
- 2 co-operative education credits in an automotive related field
- industry recognized certifications such as first aid and CPR
- experiential and “reach ahead” activities that relate to Hospitality
- an Ontario Skills Passport (essential skills and work habits)

Any student enrolled in a grade 11 Hospitality major is able to enrol in the Grade 11 Hospitality SHSM.

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**Hospitality . Culinary Arts and Management . Grade 11 . +HS3CH . 3 credits**

Do you think you have what it takes to maybe become the next great celebrity chef? The fast-paced hospitality industry has a variety of career opportunities for you! In this course you will be able to explore and experience the daily routine of a professional kitchen through hands-on food preparation, product management, menu planning, and service, while maintaining professional health and safety standards. You will also see what’s involved in the planning and execution of catering events. Professional certifications will be delivered for: Smart Serve, Service Excellence, Food Handlers Permit, First Aid and WHMIS.

Prerequisite: TFJ2O1 recommended, but not required.
**Manufacturing Technology**

**Precision Machining** . Manufacturing Technology  
Grade 11 . College Preparation . TMP3C1  
Do you like to create and make things? Do you enjoy a hands-on approach to learning? Are you interested in how products, tools and other objects fit together and come apart – and how they are made? Do you want to learn a skilled trade? In this course, you will learn to make decorative, ornamental, mechanical and practical projects that you can take home! Using conventional and computer-controlled machines with CAD/CAM software, you will learn the fundamentals of product design and manufacturing using a variety of plastics and metals, in a fully equipped machining facility. This course is an excellent foundation for apprenticeships, further workplace training, and mechanical/industrial/aerospace/automotive engineering at the post-secondary level.  
Prerequisite: NONE. TMJ201 suggested

**Welding Technician** . Manufacturing Technology  
Grade 11 . College Preparation . TMY3C1  
This course, taught by industry certified instructors, offers you a manufacturing technology program incorporating design, metal fabrication and welding technologies. You will experience and practice various welding methods and processes, such as: gas welding, mig welding, arc welding, torch cutting, plasma cutting, etc. 
You will solve problems and make the critical decisions necessary to develop efficient production systems. You 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.  
Prerequisite: NONE. TMJ201 suggested

**Technological Design**

**Architectural Design & Computer-Aided Drafting**  
Grade 11 . College/University Preparation . TDA3M1  
This course provides students with opportunities to apply the principles of technological design to challenges in communications, manufacturing, electronics, transportation, architecture, industrial and consumer products, health and safety equipment, and environmental services. Students use the design process and Computer-Assisted drafting (CAD), 3-D modelling and animation software to solve problems, complete projects, and strengthen their communication skills. They will also acquire the basic design skills required for post-secondary studies in engineering, manufacturing, architecture, and construction. Emphasis will be placed on architectural design and building sciences using traditional and computer-aided drawing methods.  
Prerequisite: TDJ2O1 recommended, but not required.

**Fashion Technology** . Grade 11 . University/College Preparation . +FA3M0 . 3 credits  
Develop the skills you need to jump-start a career in the fashion industry! In Grade 11 you will create jackets, pants, skirts and tops for men and women. Discover fashion illustration, historic costume, textiles, and portfolio building. Practice industrial pattern drafting techniques through the design and creation of pant and skirt patterns and sewn samples. You will also have the experience of participating in the CTS Fashion Show.  
Prerequisite: TDJ2OP, TDJ2O8 recommended, but not required.

**Eco-Fashion Design** . Grade 11 . College Preparation . TDP3M1  
Do you want to learn how to sew? Do you want to create cool fashion projects that are environmentally conscious? Are you in grade 11 or 12? Then this course is for you!! “Eco-Fashion Design” is an introduction to the basics of sewing, sewing machine safety, pattern use, fabric knowledge and eco-product design. You will discover how to creatively re-cycle, re-design and re-purpose used fashion items into new “up-cycled” fashion product designs. You will develop presentation skills and learn how to communicate your ideas to a design group. Go for Green Design! No experience necessary!  
Prerequisite: None
**Transportation Technology**

**Small Engine and Recreational Equipment**
Grade 11 . College Preparation . TTS3C1

From lawnmowers to snow blowers, chainsaws to go-karts, ATV’s to personal watercraft—these are just a few of the hundreds of machines around us powered by small engines. This course covers four-stroke and two-stroke engines, fuel systems, ignition systems, cooling systems, and starter units. Instructors are industry qualified and are avid recreational equipment owners and participants. You will service, measure, repair and modify recreational equipment while applying safe work practices and procedures using current technology. You will also develop effective communication and teamwork skills when developing solutions to service and repair challenges.  

**Heavy Duty Equipment** . Grade 11 . College Preparation . TTH3C1

Do you want to play in the dirt? This course is for students who want to learn how to work on, service and possibly operate heavy equipment; the likes of backhoes, tractors, skid steers, forklifts, and excavators. Students will learn the theory of operation of the equipment, diesel theory and hydraulics. The majority of the course will involve hands on work with the equipment. Operation and licensure on the equipment is a possibility. Safety is of the utmost importance in this course, students are expected to make safety their first priority. Safety boots are mandatory to participate in practical work. Operators must be 16 years old and have a G1 license.  

**SPECIALIST HIGH SKILLS MAJOR (SHSM)**

The Specialist High Skills Major is a Ministry of Education approved specialized program that allows you to focus your learning on a specific economic sector (in this case automotive service and repair) while meeting the requirements for the Ontario Secondary School Diploma. (OSSD) It is meant to assist you in your transition from secondary school to apprenticeship training, college, university or the workplace.

The SHSM has five components:

- a bundle of 10 credits over grades 11 and 12 that includes: 5 automotive credits, 3 academic credits which have units that are linked to automotive
- 2 co-operative education credits in an automotive related field
- industry recognized certifications such as first aid and CPR
- experiential and "reach ahead" activities that relate to automotive
- an Ontario Skills Passport (essential skills and work habits)

Any student enrolling in the automotive technological major is able to enrol in the Automotive SHSM.

**Automotive Service** . Transportation Technology . Grade 11 . +HS3CA . 3 credits

This course, taught by a government certified automotive service technician, studies shop safety, chassis, engines, brakes, drivelines, steering and suspension systems, basic electricity, batteries, and fuel and ignition systems while in our school’s government licensed repair facilities. Theory lessons will be re-enforced by practical work on live vehicles. You will solve problems related to vehicles and transportation systems; examine transportation-related issues such as energy conversion, power transfer, control systems, and environmental and societal impact; and investigate the educational requirements of career opportunities in the transportation sector.

Prerequisite: TTJ2O1 recommended, but not required.