Central Technical School
grade 9 course calendar
2014 / 2015

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# Table of Contents

The Arts & Art Program  
Computer and Business Studies  
English  
English Language Learning  
Canadian & World Studies  
Health & Physical Education  
Mathematics  
Moderns  
Science  
Special Education  
Technological Studies  

*denotes multi-credit course package*
A MESSAGE FROM THE PRINCIPAL

It is with great pleasure that I introduce the Grade 9 Course Calendar at Central Technical School.

I urge you to make informed decisions about your option selections for the next year. Ask your teachers, guidance counselors, or make an appointment through your home school to consult with Central Technical School for information and assistance in making your choices. The transition from elementary school to secondary school is a big step and we want to assure you that we will assist in making the transition as easy as possible.

An active Student Government adds to the excitement at Central Tech, resulting in a varied co-curricular program second to none in the city. Virtually all sports thrive at C.T.S. in a tradition of teamwork and individual good sportsmanship. The Performing Arts and Visual Arts programs are recognized as truly outstanding. We have many interesting, varied and inclusive clubs. We welcome you to become involved.

The support of our community is illustrated by the lucrative scholarships and awards established by business professionals, graduates, and friends of the school. These awards are granted for both academic and technological achievement, and help to ensure that a Central Technical School education is available to all outstanding young men and women, whatever their financial circumstances.

The dedicated staff at Central Technical School is committed to excellence. By choosing Central Tech for your high school education, you have an opportunity to become part of this exciting and rewarding learning environment.

Our Student Support Department is always ready to assist. They are available with additional information at 416-393-0070, ext. 20041.

Sheryl Freeman
Principal
Central Technical School
The Arts

Music – Instrumental Band. Grade 9. Open. AMI1O1
Are you interested in learning to play a band instrument? You will be given opportunities to learn to play an instrument or continue learning the instrument you already play. You will participate in Performing Arts assemblies, performances, and field trips outside of the school. Repertoire is chosen from popular to traditional styles with the help of students in the class. Steel Pan and keyboard will also be introduced. After successfully completing this course, you will be able to advance to a grade 10 music class. You could also take the additional credit course (AMR1O1). Emphasis will be placed on advancing playing skills and knowledge of theory. (Note: Open only to students in grade 9.)

Music – Vocal. Grade 9. Open. AMV1O1
Do you enjoy singing? This course will help you to learn good singing techniques, performance techniques, and basic music theory. Repertoire is chosen from popular to traditional styles with the help of the students in the class. After successfully completing this course, you will be able to advance to the grade 10 Vocal class. You can also take the additional credit course (AMR1O1).
Note: This course is open to students in grade 9 only

Music – Steel Pan. Grade 10. Open. AMQ1O1
The Steel Pans course is for beginners and experienced steel pan players. Participating students will perform in Performing Arts ensembles, other performances and trips outside of the school. Repertoire is chosen from popular to traditional styles with the help of students. No previous music experience is necessary to enjoy this course!
Prerequisite: none

Music – Repertoire. Grade 9. Open. AMR1O1
Would you like to earn an extra credit for participation in Band, Vocal ensemble or Steel Pan Ensemble? Repertoire is chosen from popular to traditional styles with the help of students in the class. Emphasis will be placed on learning a variety of repertoire that is geared towards public performances and participating in field trips to music related shows and events. This course will appear on your timetable in the period 3 slot, although the actual participation times will vary between lunchtime and after school rehearsal.
Prerequisite: none

Visual Arts. Grade 9. Open. AVI1O1
Do you like to draw? Do you want to explore art? An overview of visual arts, this course provides a foundation for further study. Students will become familiar with the elements and principles of design and the expressive qualities of various materials by using a range of media, processes, techniques, and styles. Students will use the creative and critical analysis processes and will interpret art within a personal, contemporary, and historical context.

Visual Arts Package. Grade 9. +AP100. 2 credits
This two credit package consists of two academic credits. All credits are offered at the open level. It is mandatory that students choose both course codes. The program is considered a full year package. This package cannot be split and is the prerequisite for the Grade Ten package.

Visual Design
Students will apply the elements and principles of design and the expressive qualities of various art media to build foundational knowledge and skills. They will learn and use the creative process for making their own art. Art appreciation, criticism and analysis will be introduced through the study of art from various cultures and periods.

Printmaking
Students will learn foundational drawing and painting skills and techniques through a variety of traditional media. Students will learn to apply the elements and principles of design to create compositions.
Computer and Business Studies

Information Technology in Business . Grade 9 . Open . BTT2O1
This course introduces you to information and communication technology in a business environment and builds a foundation of digital literacy skills necessary for success in a technologically driven society. Students will develop word processing, spreadsheet (including charting), database (how many MP3 tracks do you really have by Nelly?), desktop publishing (graphic layout and brochures), presentation software (with sound and animation), digital photo manipulation, and website design skills. Throughout the course, there is an emphasis on digital literacy, effective electronic research and communication skills, and current issues related to the impact of information and communication technology.

Prerequisite: none

English

English . Grade 9 . Academic . ENG1D1
This course is designed to develop the oral communication, reading, writing, and media literacy skills that students need for success in their secondary school academic programs and in their daily lives. Students will analyse literary texts from contemporary and historical periods, interpret informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the use of strategies that contribute to effective communication.
This course prepares students for further studies in English at the Academic and University level.

English . Grade 9 . Applied . ENG1P1 or ENG1P9
This course is designed to develop the key oral communication, reading, writing, and media literacy skills students need for success in secondary school and daily life. Students will read, interpret, and create a variety of informational, literary, and graphic texts. An important focus will be on identifying and using appropriate strategies and processes to improve students' comprehension of texts and to help them communicate clearly and effectively.
This course prepares students for further studies in English at the Applied and College level.

English . Grade 9 . Locally Developed . ENG1L1 or ENG1L9
This course provides foundational literacy and communication skills to prepare students for success in their daily lives, in the workplace, and in the Grade 10 LDCC Course. The course is organized into strands that develop listening and talking skills, reading and viewing skills, and writing skills. In all strands, the focus is on developing foundational literacy skills and on using language clearly and accurately in a variety of authentic contexts. Students develop strategies and put into practice the processes involved in talking, listening, reading, viewing, writing, and thinking, and reflect regularly upon their growth in these areas.
This course prepares students for further studies at the Locally Developed and Workplace level.
English Language Learning

Students at the beginning and low intermediate stages of English language acquisition are timetabled in a package which consists of intensive language and literacy instruction. They are also enrolled in special sections of grade 9, 10 and 11 courses in which they receive ELL support.

**English as a Second Language . Level 1 . ELAO1**

This course builds on students’ previous education and language knowledge to introduce them to the English language and help them adjust to the diversity in their new environment. Students will use beginning English language skills in listening, speaking, reading, and writing for everyday and essential academic purposes. They will engage in short conversations using basic English language structures and simple sentence patterns; read short adapted texts; and write phrases and short sentences. The course also provides students with the knowledge and skills they need to begin to adapt to their new lives in Canada.

The Level 1 package includes:
- English as a Second Language, Level 1 (ESLA08)
- Individual and Family Living (HIF108)
- Integrated Arts (ALC108)
- Option (see below)

**English as a Second Language . Level 2 . ELBO1**

This course extends students’ listening, speaking, reading, and writing skills in English for everyday and academic purposes. Students will participate in conversations in structured situations on a variety of familiar and new topics; read a variety of texts designed or adapted for English language learners; expand their knowledge of English grammatical structures and sentence patterns; and link English sentences to compose paragraphs. The course also supports students’ continuing adaptation to the Ontario school system by expanding their knowledge of diversity in their new province and country.

The Level 2 package includes:
- English as a Second Language, Level 2 (ESLBO8)
- Living Spaces and Shelter (HLS308)
- ESL Science (SNC1P8)
- Option (see below)

**English as a Second Language . Level 3 . ELCO1**

This course further extends students’ skills in listening, speaking, reading, and writing in English for a variety of everyday and academic purposes. Students will make short classroom oral presentations; read a variety of adapted and original texts in English; and write using a variety of text forms. As well, students will expand their academic vocabulary and their study skills to facilitate their transition to the mainstream school program. This course also introduces students to the rights and responsibilities inherent in Canadian citizenship, and to a variety of current Canadian issues.

The Level 3 package includes:
- English as a Second Language, Level 3 (ESLCO8)
- Managing Personal and Family Resources (HIR3C8)
- ESL Geography (CGC1P8)
- Option (see below)

Students at the high intermediate and advanced levels receive one period of language instruction daily. These courses help them to acquire the confidence as well as the language and literacy skills needed for success in a senior English course.
**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 . ESLE08**
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:
- Visual Art (AVI108)
- Math (MFM1P8, MAT1L8, MFM2P8, MAT2L8)
- Science (SNC2D8)
- Computer Applications (BTT2O8)
- Hospitality (TFJ2O8)
- Canadian History (CHC2P8)
- Travel and Tourism (CGG3O8)
- Law (CLU3M8)
- English Presentation and Speaking Skills (EPS3O8)
- Experiential Learning (GLD2O8)
- General Learning Strategies (GLS2O8, GLS4O8)
- Fashion Technology (TDJ2O8)

**Discovering the Workplace . Grade 10 . Open . GLD2O8**
This course provides English language learners with opportunities to discover and develop the workplace essential skills and work habits required to be successfully employed. Students will develop an understanding of work through practical hands-on experiences in the school and in the community, using real workplace materials. They investigate occupations of interest through experiential opportunities. This course helps students make plans for continued learning and work.

**ELL Fashion Technology . Grade 10 . Open . TDJ2O8**
This course introduces English Language Learners to fashion. Students will practice both technical sewing skills and communication skills while creating sewn projects for men and women. Students will develop speaking, writing and listening skills while also learning the safe use of sewing equipment, fabric knowledge and care, and how to use patterns. This course is open to students in grades 9 or 10 and is recommended as preparation for the grade 11 Fashion Technology multiple credit package.

**Prerequisite: none**
Canadian & World Studies

Geography of Canada. Grade 9. Academic. CGC1D1
This course will examine the principles of physical, human, and economic geography as well as environmental studies to explore the distinct and evolving character of Canada’s geography. Students will explore Canada’s physical and cultural diversity and analyse the connections between the environment and human activities. Students will examine Canada’s role in the world and examine current human and environmental issues. Students will analyse different types of information to predict how these issues will impact us locally and globally in the future.

Geography of Canada. Grade 9. Applied. CGC1P1 or CGC1P9
This course draws upon students’ everyday experiences and uses a variety of frameworks, including eco-zones, to help students learn about the geography of Canada. Students will explore Canada’s physical and cultural diversity through hands-on applications including field trips, creating and studying maps, charts, graphs and other text and visuals. Students will explore their local region as well as Canada’s role in the world in order to understand human and environmental issues. Students will analyse data to help them predict how current trends will impact us locally and globally.

Health and Physical Education

Healthy Active Living Education. Grade 9. Open. PPL1OF (female). PPL1OM (male)
Health and Physical Education in high school couldn’t get any better than this! This is a course that emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy active living. Students will participate in many different activities such as Games of Low Organization, volleyball, badminton, ultimate frisbee, soccer, softball, football, archery, golf; students can even learn how to play cricket! Through these activities, students will learn and develop competence in the many different sports skills taught and will learn how to play games using several offensive and defensive strategies. During this course, students will utilize our 3 gymnasiums, the 25 yard pool and our fully equipped fitness gym. In addition to the many sport and physical activities in which students will take part, students will access the fitness gym to learn about physical fitness, fitness appraisals and how to improve their own personal fitness by developing a personal fitness profile. Students will also take part in the aquatic section of the course, where they can learn how to swim, work on improving their strokes, and take part in aquatic games. In health, students will investigate issues related to healthy sexuality and growth; the use and abuse of alcohol, tobacco, and other drugs; personal safety, and will participate in activities designed to develop goal-setting, communication, and social skills.

Mathematics

Principles of Mathematics. Grade 9. Academic. MPM1D1
This course enables students to develop an understanding of mathematical concepts related to algebra, analytic geometry, and measurement and geometry through investigation, the effective use of technology, and abstract reasoning. Students will investigate relationships, which they will then generalize as equations of lines, and will determine the connections between different representations of a linear relation. They will also explore relationships that emerge from the measurement of three-dimensional figures and two-dimensional shapes. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for further math studies at the Academic level.
Foundations of Mathematics. Grade 9. Applied. MFM1P1 or MFM1P9
This course enables students to develop an understanding of mathematical concepts related to introductory algebra, proportional reasoning, and measurement and geometry through investigation, the effective use of technology, and hands-on activities. Students will investigate real-life examples to develop various representations of linear relations, and will determine the connections between the representations. They will also explore certain relationships that emerge from the measurement of three-dimensional figures and two-dimensional shapes. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.
This course prepares students for further math studies at the Applied and College level.

Mathematics. Grade 9. Locally Developed. MAT1L1 or MAT1P9
This course emphasizes further development of mathematical knowledge and skills to prepare students for success in their everyday lives and in the workplace. The course is organized in three strands related to money sense, measurement, and proportional reasoning. In all strands, the focus is on developing and consolidating key foundational mathematical concepts and skills by solving authentic, everyday problems.
Students have opportunities to further develop their mathematical literacy and problem-solving skills and to continue developing their skills in reading, writing, and oral language through relevant and practical math activities.
This course prepares students for further math studies at the Workplace level.

Moderns
Did you know that Canada has two official languages, English and French? Did you also know that so many people around the world in various countries speak French? Finally, did you know that you are more likely to find employment if you have French language qualifications? Interesting, isn't it! We look forward to offering you the opportunity to continue your French language studies in grade 9.

Core French. Grade 9. Academic. FSF1D1
This course provides opportunities for students to communicate and interact in French with increasing independence, with a focus on familiar topics related to their daily lives. Students will continue to develop language knowledge and skills by using language-learning strategies introduced in the elementary Core French program, and will apply creative and critical thinking skills in various ways. They will also enhance their understanding and appreciation of diverse French-speaking communities, and will develop the skills necessary to become life-long language learners.
Prerequisite: Minimum of 600 hours of elementary Core French instruction, or equivalent

Core French. Grade 9. Applied. FSF1P1
This course provides opportunities for students to communicate and interact in French in structured situations on everyday topics and to apply their knowledge of French in everyday situations. Students will continue to develop language knowledge and skills introduced in the elementary Core French program, through practical applications and concrete examples, and will use creative and critical thinking skills in various ways. They will also enhance their understanding and appreciation of diverse French-speaking communities, and will develop the skills necessary to become life-long language learners.
Prerequisite: Minimum of 600 hours of elementary Core French instruction, or equivalent
**Science**

**Science . Grade 9 . Academic . SNC1D1**
This course enables students to understand essential concepts in ecology, chemistry, earth and space science, and physics; to develop skills in the processes of scientific inquiry; and to relate science knowledge to technological, social, and environmental knowledge. Students will learn about scientific theories and pursue inquiries related to impacts of human activities on the environment, atomic and molecular structures, properties of elements and compounds, the universe and space exploration, and the principles of static and current electricity. This course prepares students for further study in science at the Academic and University preparation level.

**Science . Grade 9 . Applied . SNC1P1 or SNC1P9**
This course enables students to understand essential concepts in ecology, chemistry, earth and space science, and physics; to develop practical skills in scientific investigation; and to apply their knowledge of science to everyday situations. Students will design and conduct investigations into practical problems and issues related to impacts of human activities on the environment, the structure and properties of elements and compounds, astronomy and space exploration, and static and current electricity. This course prepares students for further study in science at the Applied and College preparation level.

**Science . Grade 9 . Locally Developed . SNC1L1**
This course emphasizes reinforcing and strengthening science-related knowledge and skills, including scientific inquiry, critical thinking and the relationship between science, society, and the environment, to prepare students for success in everyday life, and in the workplace. Students explore a range of topics including science in daily life, properties of common materials, life sustaining processes in simple and complex organisms, and electrical circuits. Students have the opportunity to extend mathematical and scientific process skills and to continue developing their skills in reading, writing, and oral language through relevant and practical science activities. This course prepares students for further studies in science at the Locally Developed and Workplace level.

**Special Education**

**Learning Strategies**

**Skills for Success in Secondary School . Grade 9 . Open . GLE1O9 . 1 credit**
This course explores learning strategies and helps students become better, more independent learners while increasing their personal management skills, both in school and in other contexts. Students will learn how to develop and apply a range of strategies to improve their learning and achievement, particularly their literacy, numeracy, communication, and planning skills. This course will increase students’ confidence, motivation, and ability to learn.

*Prerequisite: IEP and recommendation from the Principal*
TECHNOLOGICAL COURSES and PACKAGES

These courses are open to Grade 9 students. You are expected to choose 2 Technological courses in your Grade 9 year.

Communications Technology

**Communications Technology** . Grade 9 . Open . TG J2O1
This course introduces students to communications technology from a multi-media perspective. Students will work in the areas of video production, radio and audio production, print and graphic communications and photography. Student projects may include computer-based activities such as creating videos, editing photos, working with audio and graphic design. Students will also develop an awareness of environmental and societal issues related to communications technology and explore secondary and post secondary education and training pathways. All this will provide you with a better understanding of multi-media, so you can become more informed about your senior Technology Studies choices.

Prerequisite: none

Computer Studies

**Computer Technology** . Grade 9 . Open . TEJ2O1
This course introduces students to computer systems, networking, and interfacing, as well as electronics and robotics. Students will assemble, repair, and configure computers with various types of operating systems and application software. Students will build small electronic circuits and write computer programs to control simple peripheral devices or robots. Students will also develop an awareness of environmental and societal issues related to the use of computers, and learn about secondary and postsecondary pathways to careers in computer technology.

Prerequisite: none

Construction Technology

**Construction Technology**

**Woodworking, Plumbing, Electrical** . Grade 10 . Open . TCJ2O1
Do you like to help fix things around the house? If you have ever thought about a career in the skilled trades, this course is where it all begins! Learn about the materials, tools and construction methods used by the pros. The focus of this course will be on light construction used in residential installations. You will learn to design and interpret working drawings and diagrams used to construct projects using simple hand and power tools related to the plumbing, electrical, and carpentry trades. Interested in any of these construction technology areas? You can further your studies with the Specialized High Skills Major programs offered in plumbing, electrical, and carpentry at our senior levels.

Prerequisite: none

Health and Personal Services

**Hair Styling and Aesthetics** . Grade 9 . Open . TXJ2O1
This introductory course offers students a general overview of the beauty industry. Students will learn how to style hair using a variety of methods; rollers, pin curls, blow styling and curling irons. Students will also perform manicures, pedicures and a variety of braids. Students gain knowledge, skills and insight into the hair industry.

Prerequisite: none

**Health Care** . Communications/Ethics, Health and Safety . Grade 9 . Open . TPJ2O1
This course enables students to appreciate what good health is for both themselves and others. Emphasis is placed on familiarizing students with physical and mental wellness. Students will gain skills in delivery of safe basic care to both adults and children.

Prerequisite: none
Hospitality and Tourism  

Hospitality and Tourism. Grade 9. Culinary Arts. Open. TFJ2O1  
Do you want to be part of a growing industry? Our Culinary Arts program gives you hands-on opportunities in knife handling, equipment use, and food preparation. You will learn to cook soups, pastas, some simple main courses, and bake cookies, muffins and other simple dessert items. You will also learn to respect cleanliness and hygiene in a professional environment.  
Prerequisite: none

Manufacturing Technology  

Manufacturing Technology  
Welding, Machine Shop, Sheet Metal. Grade 9. Open. TMJ2O1  
Students in manufacturing will be introduced to all facets of Machine Technologies, Welding Technologies, Computer Aided Design, Computer Aided Manufacturing, Robotics, Rapid Prototyping and Fabricating Technologies. This “hands-on” course enables students to gain practical knowledge and skills needed to understand and apply technological and computer concepts, theories and related high tech manufacturing practices required in the 21st Century.  
Prerequisite: none

Technological Design  

Fashion Technology. Grade 9. Open. TDJ2OP  
Do you like fashion? Do you want to learn how to sew? Then this is the course for you! In Fashion Technology you will be introduced to the safe use of sewing machines and equipment, fabric knowledge, the design process and the use of patterns. Through the creation of projects such as bags and clothing for men and women, you will become knowledgeable life-long consumers. This course is open to all students and is recommended as preparation for the grade 11 Fashion Arts multiple credit package  
Prerequisite: none

Technological Design. Drafting. Grade 10. Open. TDJ2O1  
The world requires and rewards innovation – new and better ways to do things! Here’s your chance to develop the design thinking and diverse technical skills you need for leadership in this new economy! This course introduces you to the technological, computer and problem-solving concepts you need to design, develop, and build innovative products and pursue further studies in Technological Education. In this fun, fast-paced course, you will use the design process and Computer-assisted drafting (CAD), animation software and 3-D modelling and printing(!) to solve problems, complete projects and strengthen your communication skills. This course would suit anyone testing their interest in architecture, interior design, engineering, industrial design, construction or anything built!  
Prerequisite: none

Transportation Technology  

Transportation Technology. Auto, Aircraft. Grade 9. Open. TTJ2O1  
Students in Transportation Technology will be introduced to the principles of various materials, power plant types, component functions and other mechanisms in both automobiles and aircraft. This course will allow students to apply a hands-on approach to research, estimate and properly service today’s complex transportation systems.  
Prerequisite: none