Central Technical School
grade 10 course calendar
2014 / 2015

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* denotes multi-credit course package
The Arts

**Dramatic Arts**. Grade 10. Open. ADA2O1
This course emphasizes the active exploration of dramatic forms and techniques, using material from a wide range of authors, genres, and cultures. Students’ learning will include identifying and using the principles of space, time, voice, and movement in creating, sustaining, and communicating authentic roles within a drama. Students will assume responsibility for decisions made in the creation and presentation of the drama, and will analyze and reflect on the experience.  

Prerequisite: none

**Music – Guitar**. Grade 10. Open. AMG2O1
This is an introductory course for beginning guitar players. The first part of the course will help you learn to play simple songs. Chords will be introduced. Music Theory and major scale patterns will be taught as well as sight reading from the treble clef. Repertoire is chosen from popular to traditional styles with the help of students.  

Prerequisite: none

**Music – Instrumental Band (experienced)**. Grade 10. Open. AMI2O1
Students who have successfully completed Grade 9 Music can enrol in this course to further their musical studies. The emphasis of this course will be to expand the students’ playing abilities through studying intermediate repertoire and improving technique for their primary instrument. The elements of music will be explored through the study of theory, guided listening and basic ear training.  

Prerequisite: none

**Music – Keyboard Class**. Grade 10. Open. AMK2O1
In this course you will develop piano skills at your own pace in a group setting. You will work both independently and in groups on the keyboard. The emphasis is on music-making and having fun! Repertoire is chosen from popular to traditional styles with the help of students.  

Prerequisite: none

**Music – Vocal**. Grade 10. Open. AMV2O1
In this course singing is the main focus! You will refine your vocal technique in class and will be given the opportunity to participate in Performing Arts ensembles, performances and trips outside of the school. Repertoire is chosen from popular to traditional styles with the help of students.  

Prerequisite: none

**Music – Repertoire**. Grade 10. Open. AMR2O1
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

**Music – Steel Pan**. Grade 10. Open. AMQ2O1
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
Art Program

**Visual Arts**. Grade 10. Open. AV12O1
Did you miss out on grade 9 art in the art building? Well, it’s not too late – you can take grade 10 art without your grade 9 credit! This course emphasizes learning through practice, building on what you know and introducing you to new ideas, materials, and processes for artistic thinking and experimentation. You will also learn about the connections between works of art and their historical contexts.

Prerequisite: none

**Visual Arts Package**. Grade 10. Open. +AP2O0. 2 credits. Specialized Program, Application Required
This two credit package consists of two academic credits. Both 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 eleven package.

**Media Arts**
This course will develop students’ artistic knowledge and skills by introducing them to current media arts technologies and processes. Student learning will include the analysis, appreciation, and production of media art, using a variety of traditional techniques (photography, film, photocopy, photocopy art, video, analog sound recording) and emergent technologies (computer, digital camera, scanner, multimedia, animation). Discussions and critiques of contemporary artists’ works from various cultures will enrich and inform the student experience as they apply new knowledge to their own studio projects.

**Sculpture**
Skills and techniques in sculpture, painting and drawing will be the focus of this course. Through the process of creative problem solving students will develop personal imagery and expression.

**Computer and Business Studies**

**Information Technology in Business**. Grade 10. 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 10. Academic. ENG2D1
This course is designed to extend the range of oral communication, reading, writing, and media literacy skills that students need for success in their secondary school academic programs and in their daily lives. Students will analyse literary texts from contemporary and historical periods, interpret and evaluate informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the selective use of strategies that contribute to effective communication. This course is intended to prepare students for the compulsory Grade 11 university or college preparation course.

Prerequisite: ENG1D1 or ENG1P1
**English . Grade 10 . Applied . ENG2P1 or ENG2P9**

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

**Prerequisite: ENG1D1 or ENG1P1/9**

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**English . Grade 10 . Locally Developed . ENG2L1**

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

**Prerequisite: A Grade 9 English credit**

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**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.

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**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 (ESLAO8)
- Individual and Family Living (HIF1O8)
- Integrated Arts (ALC1O8)
- Option (see below)

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**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 (HLS3O8)
- 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 (ESLC08)
- 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)

continued
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.

Health and Physical Education

Healthy Active Living Education . Grade 10 . Open . PPL2OF (female) . PPL2OM (male)
If you like being active, this is a course for you! In grade 10 you will move through a variety of sports and activities from badminton to basketball. Fitness is a focus throughout the semester, and you will learn how to stay fit and active for the rest of your life! You will examine issues related to healthy sexuality, healthy eating, substance use and abuse and the use of informed decision making, conflict resolution, and social skills in making personal choices. You will make use of our three gymnasiaums, state-of-the-art fitness gym, and our 25 yard pool. Be active, stay healthy!

Mathematics

Principles of Mathematics . Grade 10 . Academic . MPM2D1
This course enables students to broaden their understanding of relationships and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and abstract reasoning. Students will explore quadratic relations and their applications; solve and apply linear systems; verify properties of geometric figures using analytic geometry; and investigate the trigonometry of right and acute triangles. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for senior math at the Academic level.

Foundations of Mathematics . Grade 10 . Applied . MFM2P1 or MFM2P9
This course enables students to consolidate their understanding of linear relations and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and hands-on activities. Students will develop and graph equations in analytic geometry; solve and apply linear systems, using real-life examples; and explore and interpret graphs of quadratic relations. Students will investigate similar triangles, the trigonometry of right triangles, and the measurement of three-dimensional figures. Students will consolidate their mathematical skills as they solve problems and communicate their thinking. This course prepares students for senior math at the College level.

Mathematics . Grade 10 . Locally Developed . MAT2L1
This course emphasizes the extension 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 strengthening and extending key foundational mathematical concepts and skills by solving authentic, everyday problems. Students have opportunities to extend their mathematical literacy and problem-solving skills and to continue developing their skills in reading, writing, and oral language through relevant and practical math activities. This course prepares students for senior math at the Workplace level.

**Prerequisite:** Any Grade 9 Mathematics credit

**Moderns**

**Core French . Grade 10 . Academic . FSF2D1**
This course provides opportunities for students to communicate in French about personally relevant, familiar, and academic topics in real-life situations with increasing independence. Students will exchange information, ideas, and opinions with others in guided and increasingly spontaneous spoken interactions. Students will continue to develop their language knowledge and skills through the selective use of strategies that contribute to effective communication. They will also increase their understanding and appreciation of diverse French-speaking communities, and will continue to develop the skills necessary to become life-long language learners.  

**Prerequisite:** FSF1D1 or FSF1P1

**Science**

**Science . Grade 10 . Academic . SNC2D1**
This course enables students to develop a deeper understanding of concepts in biology, chemistry, earth and space science, and physics; to develop further their skills in scientific inquiry and to understand the interrelationship among science, technology, and the environment. Students will conduct investigations and understand scientific theories related to: cell and systems biology; chemical reactions, with particular attention to acid-base reactions; climate change and light and geometric optics.  

**Prerequisite:** SNC1D1 or SNC1P1/9

**Science . Grade 10 . Applied . SNC2P1 or SNC2P9**
This course enables students to develop a deeper understanding of concepts in biology, chemistry, earth and space science, and physics; to develop further their practical skills in scientific investigation and to apply their knowledge of science to real-world situations. Students will design and conduct investigations into everyday problems and issues related to cell and systems biology, chemical reactions, climate change and light and optics.  

**Prerequisite:** SNC1D1 or SNC1P1/9

**Canadian & World Studies**

**Canadian History Since World War I . Grade 10 . Academic . CHC2D1**
This course explores Canadian participation in global events and traces our development as a country through changes in population, economy, and technology. Students will analyze the elements that constitute Canadian identity, learn the stories of both individuals and communities, and study the evolution of political and social structures. Students will learn about differing interpretations of the past, and will come to understand the importance in historical studies of chronology and cause-and-effect relationships. They will also learn to develop and support a thesis, conduct research and analysis, and effectively communicate the results of their inquiries.  

**Recommended Preparation:** ENG1D1

**Canadian History Since World War I . Grade 10 . Applied . CHC2P9**
This course traces Canadian history from Canada's entry in World War I to the United Nations'
recognition of Canada as one of the best countries in which to live. Students will learn about various expressions of Canadian identity, the stories of individuals and communities, and changes in political and social structures. Students will discover the importance in historical studies of chronology and cause-and-effect relationships. As well, they will be given opportunities to formulate appropriate questions, develop informed opinions, and present information in a variety of ways.

Recommended Preparation: ENG1D1, ENG1P1 or ENG1L1

Each One Teach One . Grade 10 . Open . HIF2OP
This course is based on the E1T1 program but focuses on bringing in research skills and aspects of social science to the community involvement (twice weekly workshops) in exploring the historical, political and cultural impacts of colonialism on Canadian families of African descent.

Prerequisite: none

Civics and Careers . Grade 10 . Open . +CIVCA . 1 credit

Civics . Grade 10 . Open . CHV2O1 . (0.5 credit)
This course explores what it means to be an informed, participating citizen in a democratic society. Students will learn about the elements of democracy and the meaning of democratic citizenship in local, national, and global contexts. In addition, students will learn about social change, examine decision-making processes in Canada, explore their own and others’ beliefs and perspectives on civics questions, and learn how to think and act critically and creatively about public issues.

Scheduled with Career Studies, GLC2O1 (0.5 credit)

Career Studies . Grade 10 . Open . GLC2O1 (0.5 credit)
This course teaches you how to develop and achieve personal goals in education and work and contribute to your community. Your learning will include assessing your own knowledge, skills, and characteristics and investigating economic trends, workplace organization, work opportunities and ways to search for work. The course explores post secondary learning options, prepares you for community-based learning, and helps you build the capabilities needed for managing work and life transitions. You will design action plans for pursuing your goals.

LAWS Program

The LAWS Program is a partnership between Central Tech and the University of Toronto, Faculty of Law. It starts in Grade 10 with students taking Careers/Civics, English (academic level), History (academic level), and Science (academic level). The primary goal of the program is to help students achieve success in their post-secondary pursuits by incorporating law and justice themes into the study of their academic courses. The education of students enrolled in the LAWS program will be enhanced with tutoring provided by Faculty of Law students, field trips, workshops, guest lecturers, and career panels.

Prerequisite: Academic level courses in Grade 9 or marks above 70% in applied level are strongly recommended, plus approval from LAWS facilitator in Student Services

Special Education

Learning Strategies . Skills for Success in Secondary School . Open . GLE2O9 . 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
NOTE: Technological courses in Grade 10 are the same as the technological courses in Grade 9; therefore, if you took a course in Grade 9, you may NOT take the exact course code again in Grade 10.

**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 Technology** . Grade 10 . 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** . 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

**Fashion Technology** . Grade 10 . Open . TDJ2OP
Do you like fashion? Do you want to learn how to sew? Then this is the course for you! 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 multi-credit package.  

Prerequisite: none

**Hair Styling and Aesthetics** . Grade 10 . 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 10 . Open . TPDJ2O1
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. Culinary Arts. Grade 10. 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
Welding, Machine Shop, Sheet Metal. Grade 10. 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. 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. Auto, Aircraft. Grade 10. 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

Transportation Technology. Auto Mechanics. Grade 10. Open. +AM2O0. 2 credits
This program is an integrated study of the design, operation and maintenance of automobiles using the latest in computerized diagnostic and repair equipment, and the careers available in transportation industry. Students will also study various four stroke engines in great detail. Engines will be disassembled, tested and reassembled. When time permits, students will manufacture parts to improve economy, performance and power.

Prerequisite: TTJ2O1