

GRADE 12 COMPULSORY CORE SUBJECTS

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CHEMISTRY 40S – OFFERED IN 2016, 2018 AND 2020

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PHYSICS 40S - OFFERED IN 2017, 2019, 2021

[WORLD ISSUES 40S](#) – WEB BASED

GRADE 12 COMPULSORY CORE SUBJECTS

ENGLISH LANGUAGE ARTS

COMPREHENSIVE FOCUS 40S (1 credit)

Comprehensive Focus gives the opportunity to explore and produce a broad range of texts both literary (novels, plays, poetry, etc) and transactional (resumes, documentaries, commercials, etc). Students study the language arts in order to function in their communities and culture: to appreciate, enjoy, communicate, interact, solve problems, think critically, and make informed choices that will better the quality of their lives.

MATHEMATICS – ONE OF:

Pre-requisite for each math course is the Grade 11 course of the same name.

APPLIED MATHEMATICS 40S (1 credit)

Senior 4 Applied Math deals with data analysis, technical communication, spreadsheet use, matrix modeling, vectors, personal finance, probability, design & measurement, applications of periodic function, sequences, and data management. The emphasis is on collaborative explorations, tolerance toward alternative solutions, probable inferences, and the testing of speculation.

Pre-requisite for each math course is the Grade 11 course of the same name.

CONSUMER MATHEMATICS 40S (1 credit)

Grade 12 Consumer Mathematics is intended for students whose post secondary planning does not include a focus on mathematics and science-related fields. This is a one credit course emphasizing consumer applications, problem solving, decision making, as well as number sense and use.

Topics include:

1. Personal Finance
2. Design & Measurement
3. Government Finance

4. Statistics
5. Investigative Project
6. Career/Life Project
7. Investments
8. Income Tax
9. Variations & Formulas
10. Completing a Portfolio

Pre-requisite for each math course is the Grade 11 course of the same name.

PRECALCULUS 40S (1 credit)

Grade 12 Pre-Calculus is designed for students who intend to study calculus and related mathematics as part of their post-secondary education. Students must be creative thinkers and problem solvers.

Topics include:

1. Circular Functions
2. Transformatins
3. Trigonometry
4. Trigonometric Identities
5. Exponents & Logarithms
6. Permutations
7. Combinations & Binomial Theorem
8. Conics
9. Probability
10. Geometric Sequences

ACCOUNTING 40S (1 credit)

This course is designed to be a study of various aspects of accounting such as cost accounting, inventory systems, corporate accounting, synoptic journal and year-end adjustments and financial statement reporting. It requires the basics of Accounting Principles 30S. Please note that this math course is acceptable credit for graduation but is not recognized as a post-secondary entrance requirement.

GRADE 12 SUPPLEMENTARY SUBJECTS

ART (40G): Refining ART skills (Expressionism & The world)

- Fee \$10.00
- Gesture Drawings (Once in the year)
- Drawing Unit (Animals, expressive drawings)
- Pen & Ink (Pointillism & Crosshatching)
- Painting Unit (Acrylic & Watercolour)
- Sculpture Unit (Concept Drawing, Paper structures, Mono OR Complimentary Colour paper, cubist paper, Paper Mache, Plaster)
- Final Projects
- Art appreciation (4 styles of art REVIEW, Elements & Principles REVIEW, Project on famous artist)
- Art History (Overview of all units)
- Homework: one sketch per week in sketchbook

BAND 45G/45S (1/2 credit)

The Grade 12 band program is open to any student who has completed four or five years of instruction on a brass, woodwind or percussion instrument. Students may join the program with the permission of the instructor if they can demonstrate adequate instrumental skill. Students will be expected to develop or improve their individual playing skills. Students will have opportunities to perform in solo or ensemble events as part of their course. Students participating in the band program will be expected to perform at various concerts and school functions during the year.

BIOLOGY 40S (1 credit)

Major topics include a survey of the animal kingdom, and study of life functions of typical animals. Embryo nurture and development are studied. A unit on genetics (heredity) develops the basic patterns and mechanisms of inheritance of traits as well as some exposure to biotechnology. The mechanisms of evolution are examined, including the biological and cultural development of man. Biological and ecological problems are studied, as time allows. At least one period per cycle is used on lab exercises related to course material. The plant kingdom is examined, as well as the biochemical reactions in cell activities.

Pre-requisite: Biology 30S

CINEMA as a WITNESS to HISTORY 40S

Cinema as a witness to Modern History allows students to better understand the media of film, as it entertains, persuades and shapes our opinions of 20th century history.

Students will analyze film techniques, the message generated by film makers and the styles that are associated with motion pictures. We will also be learning more about the people, events and places that are important to world history since the late 1800s. This course will allow students to take a critical look at film, the portrayal of history and their own viewing experiences.

Warning: Films screened in-class deal with mature subject matter, ranging from G to 14A ratings.

CHEMISTRY 40S (1 credit)

This course is divided into two main sections: a core section consisting of five units, and an option section.

Core Section:

Unit A – Electronic Structure, Bonding, Periodic Table

Unit B – Reaction Rate and Chemical Reaction

Unit C – Ionic Equilibria – Acids and Bases

Unit D – Solubility

Unit E – Oxidation – Reduction

Option Section:

Analytical Chemistry

Metallurgy

Consumer Chemistry

Environmental Chemistry

Chemistry of Food Production

Total Course: Core Section and any two options

Pre-requisite: Chemistry 30S

COMPUTER SCIENCE 40S (1 credit)

This course is a secondary course in computer programming using Visual Basic programming language. Topics include: structured programming, dynamic arrays, sequential files, functions, graphics, animation. Students are required to have a solid standing in Math 20S. Integration of Internet is required.

Pre-requisite: Computer Science 30S

CONSTRUCTION TECHNOLOGY 40S

This introductory course for Building Construction is designed to provide fundamentals in theory and practice relating to basic carpentry. Topics covered include scale plot plans, floor plans and elevations. Safety on the jobsite and in the use and care of power tools is emphasized. Fifty percent of the course is devoted to scale drawings of a two bedroom bungalow. This includes the floor plan, electrical, heating and ventilation. As well, basement, roof and side elevations are included. Once completed the remaining fifty percent of the class is devoted to the construction of the house designed in the first term. This is a scale model home. If applicable a hands on construction project is completed. In past years the green house and various sheds, and an outdoor classroom have been built.

CO-OP EDUCATION 41G (1 credit)

Coop Education provides meaningful experience in the workplace for Grade 12 students. Students spend one half day at work placement for one semester. They earn no salary but gain credits. The Coop Ed. Monitor interviews students to assess skills and aptitudes to match suitable employers. Industries, business, non-profit organizations, farms, and government have provided work placements.

Coop students gain on-the-job experience, develop work skills, make contacts in the working world, develop a better knowledge of jobs available and gain self-confidence by exposure to the working world.

Students may take 31G and 41G concurrently for 2 credits.

CREDIT FOR EMPLOYMENT

Credit for Employment will allow students to earn high school credit for paid work experience, and to encourage and recognize the skills development and experience gained through employment. These guidelines can be used by educators, administrators, parents and students to support the planning, monitoring, evaluating, and reporting of student experiences related to the Credit for Employment (CFE).

CFE offers students, who are a minimum of 16 years of age and/or in Grade 11 or Grade 12, the opportunity to earn a high-school credit in Credit for Employment. The CFE allows students to implement career development principles such as essential employability skills into the authentic context of work. Through employment, students will have an opportunity to apply and refine the knowledge and skills acquired in the Career Development Life/Work courses. Furthermore, the CFE will provide students with valuable workplace experience that will contribute to their career-life planning.

The credit(s) for Credit for Employment are Grade 11 one-half (0.5) credit 35G or the full (1.0) credit 30G and the Grade 12 one-half (0.5) credit 45G or the full (1.0) credit 40G.

Number of CFE Credits Allowed

The Career Development Life/Work courses provide a foundation for students that will help prepare them for participation in the CFE credit.

To be eligible to participate in the CFE, a student must either complete a minimum of a half-credit (0.5) Career Development Life/Work course prior to registering for the CFE or they must complete a minimum of a half-credit (0.5) Career Development Life/Work course while they are completing a CFE.

The maximum number of CFE credits allowable in the calculation of a student's Senior Years graduation credit requirements is two (2.0) credits.

A student may earn one (1.0) full credit by undertaking and successfully completing a CFE for a minimum of 110 hours of approved employment.

A student may earn one-half (0.5) credit by undertaking and successfully completing a CFE for a minimum of 55 hours of approved employment.

A student may earn either the 30G credit (1.0) or the 35G half-credit (0.5), but not both. A student may also earn either the 40 G credit (1.0) or the 45G credit (0.5) but not both.

FOOD AND NUTRITION 40S (1 credit)

This is a full credit Food & Nutrition course designed for students interested in advanced study in food and nutrition. The course is in two parts:

1. Theory – concentrates on the food industry in Canada, advanced study of nutrition consumer behavior, skills to use when living on your own, world food practices, and foreign food. Research projects and presentations are stressed.
2. Labs – advanced skills in cooking, foreign/ethnic foods, and money management

Fee: \$30 per student

FRENCH 40S (1 credit)

This course consists of a completion of all grammatical topics and structures required for credit in French 40S. There is a definite emphasis on oral French, general vocabulary enrichment and everyday situations. There is also an emphasis on French

culture (arts, poetry, drama, classic works). Reading will vary from articles in newspapers, to passages by French Canadian authors and a brief study of some well-known French authors, such as Victor Hugo (Les Miserables).

Pre-requisite: French 30S

HOCKEY 41G

The aim of this course is to provide a unique program of study to meet the individual needs of highly motivated students. The learning outcomes will be delivered by a variety of meaningful instructional strategies.

This course is being offered to meet an emerging need for the development of sports school programs in Canada. This course will allow students at Teulon Collegiate to have access to an intense program of hockey instruction based on Theory, Technical and Dryland Training Units.

Dryland: Weight Training, skill stations, circuit training, cross training and fitness training.

Theory: Study of International Hockey, Issues in Canadian Hockey, Sports Psychology as well as other topics.

Technical: Fundamental Skill Development, Power Skating, Individual Tactics, Team Tactics, Position Specific Skills and Strategies, Team Play Systems and Special Team Systems.

Students can take this course each year grade 9 to 12 and if they did not take the class the previous year they can still take hockey for the grade level they are at. This course is geared to the individual and what level of play they are at when they take the course. Many Students have found the class beneficial to improving their individual hockey skills.

HOME ECONOMICS 40G (1 credit)

This course consists of two areas: Foods & Nutrition (70%) and Child Development (30%). Some topics covered in Foods & Nutrition are: world food problems, vegetarianism, and kitchen planning. The Child Development builds on the 30G level. There is an opportunity to care for a baby (infant simulator).

HSAP (Apprenticeship)

Teulon Collegiate Institute

What is the High School Apprenticeship Program?

- A program offered by Teulon Collegiate where you can get credits for working in an approved trade and GET PAID FOR IT!!!

How do you qualify for the HSAP?

- You must be in Grade 11 or Grade 12
- You should be 16 years of age
- You must cover compulsory requirements in Grades 9-12

Why enter the Apprenticeship Program?

- You are linked to real opportunities in the job market
- There is the chance to use state-of-the-art technology at work
- It is an access route to further apprenticeship training
- Many trades are forecasting a shortage of employees in the near future
- HSAP balances your schooling and on-the-job training
- You will receive a credit for every 110 hours of training
- You may earn up to 8 credits to be used towards graduation requirements
o Grades are determined using Apprenticeship Branch competency lists
- On the job hours can be applied to continued apprenticeship training
- You will earn minimum wage + 10%

How do I register?

You are responsible for:

- Determining a trade of interest
- Finding your own employer in an approved trade that is willing to take you on as an apprentice (the employer must be qualified and insured)
- Completing the apprenticeship agreement. Your parents and your employer will also have to complete parts of the form and sign the agreement

What are the approved trades?

You have access to career opportunities in a number of trades. They are:

- Electric Motor System Technician
- **Industrial Electrician**
- Industrial Instrument Mechanic
- Industrial Mechanic (Millwright)

- Industrial Welder
- Machinist
- Power Electrician
- Steel Fabricator
- Tool and Die Maker
- Agricultural Equipment Technician
- Aircraft Maintenance Journeyman
- Heavy Duty Equipment Technician
- Marine and Outdoor Power Equipment Technician
- Motor Vehicle Body Painter
- Motor Vehicle Body Repairer
- Motor Vehicle Mechanic
- Transport Trailer Technician
- Truck and Transport Mechanic
- Bricklayer
- Cabinetmaker
- Carpenter
- Concrete Finisher
- Glazier
- Ironworker
- Lather (Interior Systems Mechanic)
- Painter and Decorator
- Roofer
- **Construction Electrician**
- **Crane and Hoisting Equipment Operator**
- **Refrigeration and Air Conditioning Mechanic**
- Plumber
- Sheet Metal Worker
- **Steamfitter - Pipefitter**
- **Sprinkler System Installer**
- Pork Production Technician
- Landscape Technician
- Cook
- Parts Person

If you have any further questions please feel free phone me at 886-2593.

Thank you.

Mr. J. Darragh HSAP Co-ordinator

LAW 40S (1 credit)

Law 40S provides an excellent opportunity for each student to acquire knowledge of basic legal principles. These principles are of considerable importance not only in

his/her daily living but also in realizing his/her rights, remedies, duties and obligations as a member of society and in developing an appreciation for a just and stable legal system. Law is a course dealing primarily with the application of legal principles and procedures to the personal business problems of the individual; it also prompts the understanding of laws regulating the total economy that affects the individual as a producer and consumer in that economy.

Law contributes to the two main bases of education. One is the potential of knowledge for the development of the process of thinking; and the other is the relative importance of the knowledge in the life of the pupil and of society. Law 40S should help the students to investigate that portion of our social structure that has legal implications. The program includes related aspects of law such as: legal solutions to social problems, contractual arrangements, crimes and torts, the law-making processes, the administration of justice, automobile negligence and family law.

PEER ASSISTANCE 41G (1 credit)

In this course students will build on skill development in the 31G course and they will gain further experience in peer tutoring and may be exposed to special needs students outside of the school setting. Although 31G is not a pre-requisite, students choosing 41G without the 31G credit will be required to do extra research and investigation.

PHYSICAL EDUCATION 41G (1 credit)

This is an optional course consisting of a physical education component and a leadership component, similar to the senior 3 course.

The Phys. Ed component consists of five activity units each lasting approximately one month. A variety of activities will be offered depending on class size, weather and availability of equipment and facilities. The leadership component of the course involves organizing and running intramural activities, interscholastic events, and a variety of other school activities.

PHYSICS 40S (1 credit)

1. Electricity and Magnetism
 - a) Static Electricity
 - b) Coulomb's Law and Electric Circuits
 - c) Magnetism
 - d) Electromagnetic Induction
2. Eight compulsory labs on above topics and waves
3. Wave Motion
4. Optional Topics: Light, refraction, energy

WORLD ISSUES 40G (1 credit)

In this course, the students examine current world issues facing society, and the implications of these issues for the future. Such topics as the environment, politics, Canadian society, racism, terrorism, are covered. The course also examines daily events happening in the community, province, country and the world with the students using media resources to facilitate such studies.