

Grade 12 Course Descriptions

English: Comprehensive Focus 40S	ENG 40S
English: Transactional Focus 40S	TRA 40S
English: Language and Technical Communication 40S	LTC 40S
Essential Mathematics 40S	CMA 40S
Applied Mathematics 40S	APM 40S
Pre-Calculus Mathematics 40S	PCL 40S
Biology 40S	BIO 40S
Chemistry 40S	CHE 40S
Physics 40S	PHY 40S
Interdisciplinary Topics in Science 40S	IDS 40S
Physical Education: Active Healthy Lifestyles 40F	PHE 40F
Global Issues: Citizenship and Sustainability 40S	GBL 40S
History: Western Civilization 40S/40G	HIS 40S/40G
Cinema as a Witness to Modern History 40S	CIN 40S
World Geography: A Human Perspective	GEO 40S
Outdoor Education: Trapping 41G	OUE 41G
Law 40S	LAW 40S
Cree 41G: Challenge Exam	CRE 41G
Current Topics in First Nations, Metis and Inuit Studies 40S	FNM 40S
Local First Nations History 41G	FNL 41G

English: Comprehensive Focus (ENG 40S)**Prerequisite: ENG 30S**

This course is designed to provide students with the opportunity to master the writing process. Emphasis will be on the correct use of each of the writing forms at a higher level from grade 11. This includes focus on diction, tone and style. There will be a provincial exam at the end of the course which students must write. This course will also provide opportunities for vocabulary enrichment, media studies, literary analysis, critical thinking skills, creative writing, research, etc. Evaluation includes a provincial examination.

English: Transactional Focus (TRA 40S)**Prerequisite: ENG 30S**

This is an advanced, optional credit, intended for those who wish to pursue a post-secondary education. The course encourages exploration of the transactional forms of communication that enable society to function as an organized unit. Students will be expected to study diverse material and to acquire new insights into techniques they could employ in their own writings. The focus, whenever possible, is on functional and practical, rather than theoretical.

English: Language and Technical Communication 40S (LTC 40S)**Prerequisite: Mature Student Program or in Technology Program**

Technical Communication is defined as a specialized form of transactional communication, characterized by its clarity, precision, and lack of ambiguity, and by its highly formatted forms. Technical Communication acknowledges the important role that communication plays in technical and professional fields and in the lives of citizens in an information-rich society.

Essential Math (ESS 40S)**Prerequisite: MAT 10F or permission from instructor**

Grade 12 essential Mathematics (40S) is intended for students whose post-secondary planning does not include a focus on mathematics and science-related fields. Grade 12 Essential Mathematics (40S) is a one-credit course consisting of two half-credits each emphasizing consumer applications, problem solving, decision making, and spatial sense.

Applied Math (APM 40S)**Prerequisite: APM 30S**

Applied Mathematics is designed to promote student flexibility and responsibility. Flexibility is encouraged by having students work on non-routine problems and projects. Responsibility is encouraged as students work individually and in

cooperative groups to explore connections with other mathematical areas, school subjects, and real-life applications.

Pre-Calculus Math (PCL 40S)

Prerequisite: PCL 30S

Grade 12 Pre-calculus Mathematics (40S) is designed for students who intend to study calculus and related mathematics as part of post-secondary education. It builds on the topics studied in Grade 11 Pre-calculus Mathematics and provides background knowledge and skills for the study of calculus in post-secondary institutions.

The course comprises a high-level study of theoretical mathematics with an emphasis on problem solving and mental mathematics. The topics include study of transformations of functions, trigonometric functions, exponential functions, logarithmic functions, polynomial functions, radical functions, rational functions, and the binomial theorem.

Biology (BIO 40S/40G)

Prerequisites: BIO 30S/30G, or permission by the instructor.

In this course students will examine life as we know it. It uncovers the methods by which parents pass on traits to their offspring – how are new lives created, and what forces determine an individual’s appearance and capabilities. The course also explores how humans classify living organisms – what exactly separates a mammal” from a “reptile”, and how have we revised our classifications in the wake of new discoveries such as DNA and genomes. It is structured into modules as follows; Understanding Biological Inheritance; Mechanisms of Inheritance; Evolutionary; Organizing Biodiversity; and Conservation of Biodiversity

Chemistry (CHE 40S)

Prerequisites: CHE 30S and recommend PCL 30S or APM 30S

This course is designed to compliment the Chemistry 30S course and give you the insight as to what to expect for further Chemistry courses in Post-Secondary studies. Topics include; 1) Aqueous Solutions; 2) Atomic Structure; 3) Kinetics; 4) Chemical Equilibrium; 5) Acids and Bases; and 6) Electrochemistry.

Physics (PHY 40S)

Prerequisites: PHY 30S and recommend PCL 30S or APM 30S

This course is designed so that the students who went through the Physics 30S course can gain a deeper insight into the relationships surrounding us. The 40 Course itself contains the same first three units as did the PHY 30S course and a new unit entitled Introduction to Modern Physics. You may ask yourself, why are we studying the same units as before? The answer comes from the fact that the 30S course dealt primarily with linear relationships while the 40S course looks at power

and inverse relationships. As a result of the change in directions, PCL and APM are recommended to be completed prior to commencement of PHY 40S.

Interdisciplinary Topics in Science 40S (IDS 40S)

Prerequisites: CTS 30S or permission by instructor

In this course, you must be able to differentiate between science and technology, recognizing their respective strengths and limitations in furthering our understanding of the material world, and appreciate the relationship between culture and the development of technologies. Explore problems and issues that demonstrate interdependence among science, technology, society and the environment within the context of sustainability. Demonstrate appropriate inquiry, problem-solving and decision-making skills and attitudes, for exploring scientific and/or technological issues and problems and explore, understand, and use scientific knowledge in a variety of contexts.

Active Healthy Lifestyles (PHE 40F)

Prerequisite: PHE 30F

The combined physical education/health education curriculum develops the knowledge, skills, and attitudes for maintaining physically active and health lifestyles. The curriculum focuses on making healthy decisions related to physical activity participation, healthy eating, substance use, sexual reproductive health, and injury prevention. It encourages schools to involve parents in planning for implementation of content that might be sensitive in some communities.

Global Issues: Citizenship and Sustainability (GBL 40S)

Prerequisite: HOC 30S/HIS 30S/30G

The intent of Grade 12 World Issues is for students to develop an understanding of global issues since 1900 and to analyze the impact of these issues on the quality of life in a variety of different political, social, and economic systems throughout the world today. Students study a variety of topics including: the role of the media; statistics used to measure quality of life; issues specific to life in India or China, Russia, and the Middle East; terrorism; colonialism; Cold War; and the role of international organizations.

History: Western Civilization (HIS 40S)

Prerequisite: HIS 30S/30G

The Grade 12 Western Civilization course is designed to help students understand that Canadian society and other Western societies evolved and were shaped by complex movements and events. The course is organized around the following six major concepts: religion, ideology, humanism, individualism, secularism, and skepticism.

Cinema as a Witness to Modern History 40S (CIN 40S)

Prerequisite: HOC 30F/HIS 30S/30G

The course will engage students in an exploration of the connections between cinema as an art form, cinema as a product of history, and cinema as an interpreter of history. Students will be guided to respond to the aesthetic and emotional elements of cinema and to apply concepts of historical thinking as they analyze historical topics represented in film. Throughout the course, students will apply critical media literacy skills in order to understand that film does not simply reflect the past, but interprets and retells the past, at times reconstructing and falsifying it.

The course of study has been divided into the following thematic units:

1. An Introduction to Cinema as a Witness to History
2. Cinema and War
3. The Human Condition: People and Personalities
4. The Past Through the Eyes of Foreign Films
5. Cinema and Sports
6. Indigenous Peoples and Cinema

World Geography: A Human Perspective (GEO 40S)

Prerequisite: HOC 30F/HIS 30S/30G

Geography deals with the interrelationships of humans and the worldwide environment. Students explore the environment, population, food supply, resources, industrialization, urbanization, and how human relationship with the environment also influences economics, sociology, politics, and ecology.

Outdoor Education: Trapping (OUE 41G)

This course is unique in nature in that the trips and activities planned encourage indirectly a man-science approach to the identification of edible plants and roots, direction, the lifecycle of various animals, map reading, the marketing of different furs, and the importance of conservation in regards to certain animals to assure that generations to come may enjoy and harvest them.

Law (LAW 40S)

The primary purpose of LAW 40S is to acquire knowledge and understanding of Canadian law as it exists and functions in society. It will also examine the dynamics of law, including legal procedures and language. LAW 40S will also broaden your understanding, appreciation, and respect for law as it exists in our community and nations.

Cree Language (CRE 41G): Challenge Exam

Prerequisite: CRE 31G or permission from the instructor

Continuation of Cree 31G with the same emphasis of the four language skills (listening, speaking, reading and writing). At this level, students should be able to listen to stories, poems, etc., and understand the meaning behind them. Students should be able to converse on any topic using the learning strategies of the previous courses. Students should be confident to read and write the stories at this level using all the learning strategies.

Current Topics in First Nations, Métis and Inuit Studies (FNM 40S)

This course provides the opportunity for Aboriginal and Non-aboriginal students to enhance their understanding and appreciation of the cultures and traditions of indigenous peoples in Manitoba, Canada and the World. This is achieved by investigating the history and interactions with non-indigenous people.

Local First Nations History (FNL 41G)

This grade 12 course instructs our students on how the Education Act and the Indian Act affect them as students in the education system. The course reviews both Acts and the implications for First Nation rights in conjunction with the Policies and Politics related to the Residential School Era. Students will study the impact of Residential Schools; life styles: pre and post. They will then explore and investigate regional, provincial, national and international issues regarding the aftermath of the Crown's apology to First Nations peoples in Canada, and how there are similar situations with other Aboriginal Peoples around the globe.