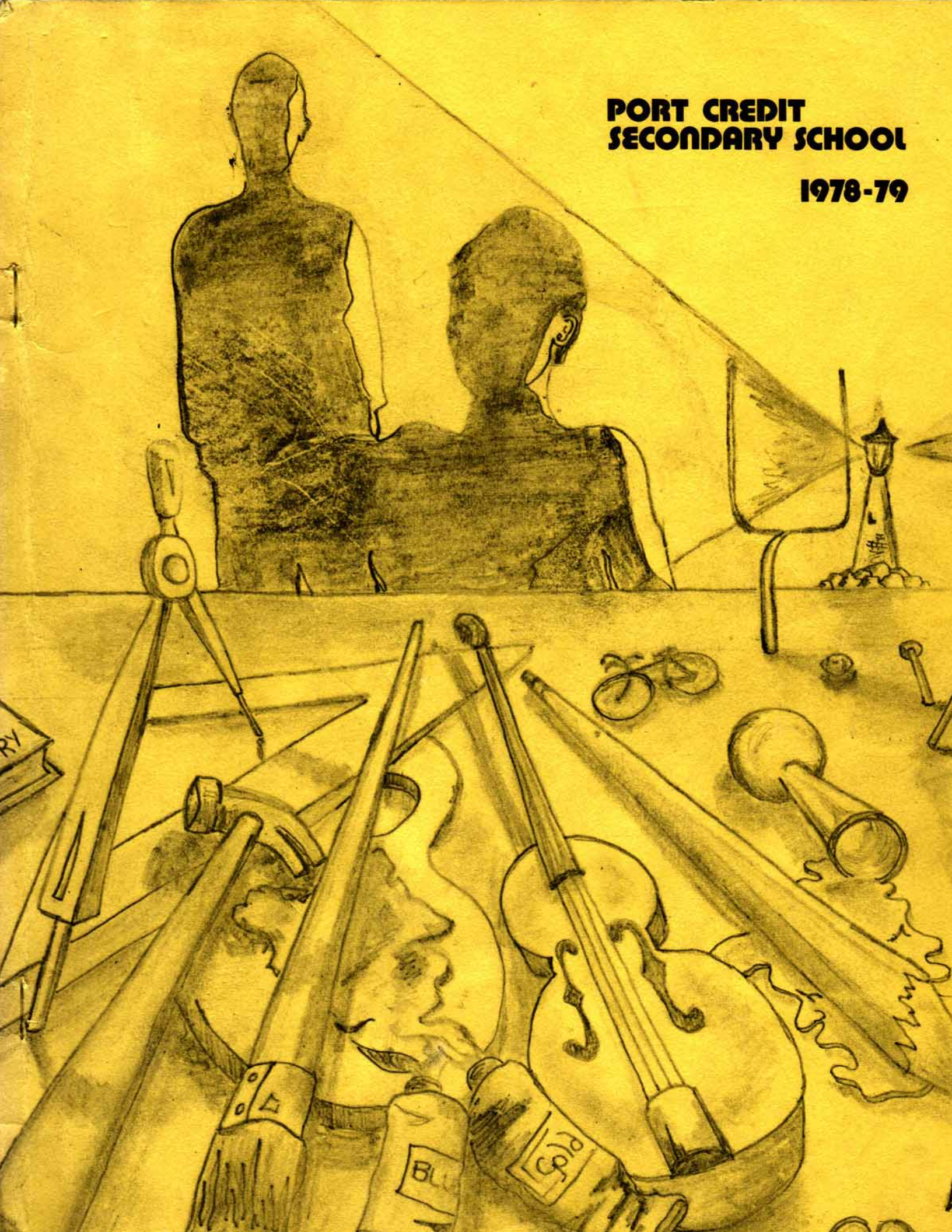


**PORT CREDIT
SECONDARY SCHOOL**

1978-79



THE PEEL BOARD OF EDUCATION

PORT CREDIT SECONDARY SCHOOL

COURSE OUTLINE BOOKLET

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DEFINITIONS OF TERMS

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The subjects offered at Port Credit are grouped into four areas of study which broadly defined is a grouping of subjects into an area of knowledge and enquiry. In order to ensure adequate breadth in a students program a minimum of three credits must be taken from each of the four areas of study. The remaining 15 credits to make up the 27 required for the Ontario Secondary School Graduation Diploma may be taken from any of the four areas of study.

The four areas of study are:

Communications: studies concerned with interchange of thought and modes of human expression. Subjects included in this area are English, French, German, Latin, Italian, Shorthand, Office Practice, Typing, Drafting.

Social and Environmental Studies: studies primarily concerned with man's unique nature and his interaction with his environment and with his fellows. Subjects included in this area: History, Geography, Economics, Man in Society, Law, Consumer Education, Business Organization and Management, Canadian Family in Perspective, Politics, Senior Home Economics, Marketing.

Pure and Applied Sciences: those studies and the skills facilitating them which are primarily concerned with the properties of matter and energy and the conditions of their interaction, and with the application of this understanding to the solution of practical problems. Subjects included in this area: Mathematics, Biology, Physics, Chemistry, Space Science, Technical Courses, Applied Mechanics, Junior Home Economics, Accounting, Business Finance, Computer Science, Bookkeeping.

Arts: those studies which are concerned with the aesthetic nature of man and the creative expression of that nature. Subjects included in this area: Art, Home Economics, Film Arts, Theatre Arts, Music, Physical Education.

DEFINITIONS OF TERMS

COURSE CODES

Each course has a six symbol code - three alphabetic and three numeric. The three alphabetic symbols indicate the subject and the course.

Department designations:

- A - Art
- B - Business Education
- C - Canadian Studies
- E - English
- F - Family Studies (Home Economics)
- G - Geography
- H - History and Social Science
- L - Languages
- M - Mathematics
- P - Physical Education
- S - Science
- T - Technical
- U - Music

The first digit indicates the year, the second the phase and the final digit designates the credit value. For example:

SPS 151 represents Science - Physical, Year 1, Phase 5, and a 1 credit value.

ENG 401 represents English - year 4, non-phased, and a 1 credit value.

TMS 107 indicates unphased, and a 1/2 credit value. (only Grade 9 Technical)

CREDIT

A credit is granted in recognition of successful completion for which a minimum of 110 hours has been scheduled. Half credits are only in Grade 9 Technical subjects.

A Secondary School Graduation Diploma will be granted on the recommendation of the Principal of the secondary school last attended to a student who has completed satisfactorily a minimum of 27 credits.

At Port Credit Secondary School, the following minimum number of credits per year is strongly recommended:

- Year 1 - 8 credits
- Year 2 - 8 credits
- Year 3 - 7 credits
- Year 4 - 6 credits

A Secondary School Honour Graduation Diploma will be granted on the recommendation of the Principal of the Secondary School in which the student last gained standing to a student who has earned six credits comprising work acceptable for the Secondary School Honour Graduation Diploma. At Port Credit Secondary School these credits are earned in Year 5 courses.

NOTE: Students who begin September, 1978 in Ontario (going into Grade 9) must include within their program during the first two years, courses in required subjects as follows:

- English: Courses in English - 2 credits
- Mathematics: Courses in Mathematics - 2 credits
- Science: Course(s) in Science - 1 credit
- Canadian Studies: Courses in Canadian History
- Canadian History - 1 credit
- AND
- Canadian Geography - 1 credit

(Choice will be made by the school on arrival as to whether History or Geography will be taken in Grade 9 or Grade 10).

NOTE: Students who began September, 1977 in Ontario (going into Grade 10) must include within their program during the first two years, courses in required subjects as follows:

- English: Courses in English
- Mathematics: Courses in Mathematics
- Science: Course(s) in Science
- Canadian Studies: Courses in Canadian History
- Canadian History (1 credit)
- AND
- Canadian Geography (1 credit)
- OR
- Two Canadian History - 2 credits

NOTE: Students who began high school in Ontario from September, 1974 to September, 1976 (going into Grades 11 and 12) must include within their program courses in required areas as follows:

- Communications: - 3 credits
- Arts: - 3 credits
- Pure and Applied Sciences: - 3 credits
- Social Science: - 3 credits
- Canadian Studies - 2 credits from the following courses:
if they have not already acquired two credits
- CMS 341 Man in Society
- CUR 451 Urban Geography
- CCL 341 Consumer Law
- CIE 451 Economics
- English studies - 4 credits minimum

NOTE: Students who began high school in Ontario prior to September, 1974 (going into Grade 13) must check with their counsellor for their diploma requirements.

NOTE: Any students from outside of Ontario must check with their counsellor for their diploma requirements.

PARENTS' RIGHTS

Principals and their staff are expected to make recommendations regarding other subjects that would be appropriate for individual students or groups of students and to give advice regarding levels of difficulty in all subjects. It is expected that such recommendations and advice will have a significant influence on the selection of courses made by students with the approval of their parents. However, students and their parents have the right to make alternative course selections, provided that the diploma requirements regarding areas of study and mandatory credits are being met.

AVAILABILITY OF COURSES

All course offerings are subject to adequate enrolment. Offering courses at the beginning level does not guarantee their continuation.

PHASE

The level of difficulty of materials, content and assignments of a course.

PHASE LEVEL

Each year a student must select, in consultation with his parents, teachers and counsellor, those courses for which he has the recommended pre-requisites and has demonstrated the ability. The selection of phase largely determines the student's program and future vocational or educational opportunities, and he is advised to select the level that matches his interests, previous achievements and educational goals.

- Phase 0 - These are NON-PHASED courses, i.e. suited to all students
- Phase 3 - These courses are basically REMEDIAL in content.
- Phase 4 - These are GENERAL level courses emphasizing basic skills that lead to a Secondary School Graduation Diploma at the end of Year 4. This phase level is for the student who is not planning to continue beyond Year 4 in the subject.
- Phase 5 - These are ADVANCED level courses that lead to Year 5 or University.
- Phase 6 - These are ENRICHED courses that offer an indepth treatment of the course content. These courses lead to Year 5 or University but also try to inculcate more responsibility in the student.

RECOMMENDED PRE-REQUISITE COURSES

It is strongly advised that these courses be taken before the next year level of that particular subject or another related subject is studied in order to maintain the cumulative nature of the program.

SEMESTER

An 18 or 19 week academic session; two semesters comprise the academic year (from September to January, February to June).

YEAR

The 'year' of any course as indicated by the numerals 1,2,3,4, and 5 is the year when the student would normally take the course.

Year 1: refers to the first year in secondary school corresponding to Grade 9

Year 2: Grade 10

Year 3: Grade 11

Year 4: Grade 12

Year 5: Grade 13

FRENCH LANGUAGE INSTRUCTION FOR SECONDARY SCHOOL STUDENTS

1. The Peel Board of Education will pay the cost of tuition and accommodation on behalf of any French speaking Peel secondary school student who wishes to enrol at:

Etienne Brûlé Ecole Secondaire (North York), or
Georges P. Vanier Ecole Secondaire (Hamilton).

2. The Peel Board of Education will assist with transportation as follows:

(a) provide a bus to Etienne Brûlé Ecole Secondaire in North York)

(b) subsidize students' transportation to Georges P. Vanier Ecole Secondaire in Hamilton, but the student must find his own mode of transportation.

FLEXIBLE SCHOOL BOUNDARIES

Students may elect to attend a school other than their neighbourhood school. This is dependant upon such conditions as availability of space and programme. The Board will not accept responsibility for the transportation of students taking advantage of this policy. Anyone interested should contact the office.

SAVE A YEAR PLAN

Students may elect to earn their Secondary School Graduation Diploma (27 credits) and their Honour Diploma (6 year 5 credits) in four years by attaining additional credits beyond the normal eight per year through summer school, night school or independent study. Factors such as limiting the scope of the students' programme and acceleration beyond ones peers should be carefully discussed by the student's parents, and a counsellor who will also assist in formulating the entire programme.

COUNSELLING SERVICES AT PORT CREDIT

The Counselling Service is concerned with understanding the individual student and with helping the student to a better understanding of himself, his opportunities, and his social responsibilities. We attempt to provide the student with information and experiences that will arouse his curiosity and initiative to explore the many various facets of life available to him. We assist the student in assessing his educational and vocational research and help him to make the most suitable selections and adjustments in choosing his life style. It should be made clear that the purpose of the Counselling Service is not to make the decision for the student but to enable him to make a more responsible decision by being aware of all the possible alternatives. On this basis, it is hoped that the individual will develop into a self-guiding, responsible decision-making person.

The Counselling Service provides a variety of services to the student, of which the most important is individual counselling. The student is encouraged to request an appointment with a counsellor whenever he feels it would be beneficial. Counselling regarding study habits, change of timetable, subject performance, option choices and post-secondary educational planning as well as personal problems provide some of the scope for the Counselling Service.

The Counselling Service is also concerned with the liaison between the parents and the school. One of our primary functions will be an attempt to provide more meaningful communication between the school and the parents in order to facilitate the difficult, ever changing decisions our students are faced with. While matters pertaining to an individual subject are better discussed with the subject teacher, the student's overall performance can be arranged quite readily by telephoning the school and contacting the Counselling Service.

Because of the wide range of choices in programmes being offered at the secondary school level each student is able to select a programme suited to his individual needs and goals. It is most important that both students and parents have a clear precise understanding of such terms as the credit system, areas of study, phase level, and pre-requisites, in order to take full advantage of the educational opportunities available at Port Credit.

A brief explanation of some of the terminology is available. However, to ensure that students and parents are fully confident in their understanding of the Port Credit programme, consultation with a member of Port Credit's Counselling staff is encouraged.

FLOW CHARTS

Arrows indicate recommended pre-requisites for courses if required.

* Asterisks indicate some suggested preconditions for courses.
Check the course description for information.

Courses beginning with C Denotes Canadian Studies

- | | |
|------------------|-----------------------------|
| Courses of Study | A Arts |
| | C Communications |
| | P Pure and Applied Sciences |
| | S Social Sciences |

COURSE	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
	ART 151(A)	ART 251(A) ART 261(A)	ADP 451 (A) ADS 451 (A) AHI 451 (AS) ALD 451 (A) ASC 451 (A) APD 451 (A) TCM 451 (A,P)		*ART 551
CLASSICS GREEK LATIN		LLA 251(C)	LLA 351(C)	LLA 451(C)	LGR 551 LLA 551
COMMERCIAL ACCOUNTING TYPING OFFICE PRACTICE FORKNER SHORTHAND PITMAN SHORTHAND BUSINESS MATH & MACH. FINANCIAL RECORDS DATA PROCESSING CONSUMER EDUCATION BUSINESS COMMUNICAT. BUSINESS LAW BUSINESS FINANCE	BTY 141(CP)	BTY 241 (CP) BMA 241(P) BFR 241(P) BDP 241(CP)	BAC 341(P) BOP 341(CP) BSF 341(CP) BSH 341(CP)	BAC 441(P) BOP 441(CP) BSH 441(CP) BCE 441(S) BCO 341(C) CCL 341(S) BFI 441(S)	BAC 551
ENGLISH	ENG 131(C) ENG 141(C) ENG 151(C)	ENG 231(C) ENG 241(C) ENG 251(C)	ENG 341(C) ENG 301(C) EFA 301(A) ETA 351(A)	ENG 441(C) ENG 401(C) EFA 401(A) ETA 451(A)	{ ENA 551 ENB 551 ETA 551
GEOGRAPHY	GEA 101(S) GRG 141(S) GRG 151(S)	GRG 241(S) GRG 251(S)	GEC 301(S) GPH 351(S)	*CUR 451(S) GES 401(S)	GCS 551
HISTORY MAN IN SOCIETY POLITICS LAW ECONOMICS		HCW 241(S) HCW 251(S) HMU 201(S)	CMS 341(S) HMR 341(S) HIS 351(S) HMP 351(S) HLW 301(S)	HWP 401(S) HMR 451(S) CIE 451(S)	HCU 551
HOME ECONOMICS FAMILY STUDIES	FHE 101(PA)	FHE 201(PA)	FHE 301 (AS)	FHE 451(AS) FHS 401(AS)	FCF 551

COURSE	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
MATHEMATICS	MAT 131(P) MAT 141(P) MAT 151(P)	MAT 241(P) MAT 251(P)	MAT 341(P) MAT 351(P)	MAT 441(P) MAT 451(P)	*MAT 551 MAA 561 MAR 551 MAC 551
MODERNS FRENCH GERMAN	LFR 151(C) LFR 161(C)	LRF 251(C) LFR 261(C) LGE 251(C)	LFR 351(C) LFR 361(C) LGE 351(C)	LFR 451(C) LGE 451(C)	LFR 551 LGE 551
MUSIC	UMI 151(A) UMI 161(A) UMV 151(A) UMS 151(A)	UMI 251(A) UMI 261(A) UMV 251(A) UMS 251(A)	UMI 351(A) UMV 351(A) UMS 351(A)	UMI 451(A) UMV 451(A)	UMS 551
PHYSICAL & HEALTH EDUCATION	PEB 101(A) PEG 101(A)	PEB 201(A) PEG 201(A)	PEB 301(A) PEG 301(A)	PEB 461(A) PEB 401(A) PEG 461(A) PEG 401(A)	
SCIENCE BIOLOGICAL SCIENCE PHYSICAL SCIENCE	SPS 141(P) SPS 151(P)	SBS 241(P) SBS 251(P)	SBI 301(P) SPH 341(P) SPH 351(P)	SCH 441(P) SCH 451(P)	SBS 551 SPH 551 SCH 551
TECHNICAL AUTO MECHANICS	TAM 107(P)	TAM 201(P)	TAM 301(P) TAM 341(P)	TAM 401(P) TAM 441(P)	
BUILDING CONSTRUCTION AND WOODWORKING	TWW 107(P)	TBC 201(P)	TBC 301(P) TWW 301(P)	TBC 401(P) TFI 401(P)	
DRAFTING ARCHITECTURAL MECHANICAL ILLUSTRATING	TDR 107(P) TDR 107(P)	TDR 201(P) TDR 201(P)	TDA 301(P) TDA 341(P) TDM 301(P)	TDA 401(P) TDA 441(P) TDM 401(P)	
ELECTRICITY	TEY 107(P)	TEY 201(P)	TEY 301(P)	TEY 401(P)	
ELECTRONICS		TEL 201(P)	TEL 301(P) TEL 341(P)	TEL 401(P) TEL 441(P)	
MACHINE SHOP	TMS 107(P)	TMS 201(P)	TMS 301(P)	TMS 401(P)	
SHEET METAL & WELDING	TSW 107(P)	TSW 201(P)	TFW 301(P)	TFW 401(P)	
CREATIVE METALWORK			TCM 301(P)	TCM 401(P)	

YEAR ONE COURSES OF STUDY

ART

FOUNDATION COURSE IN ART - ART 151

This course is devised to introduce the student to the basic material and techniques of art. The student will become familiar with a wide range of media as he examines various phases of drawing, paintings, sculpture, ceramics, architecture, etc. While artistic skills will be developed, the course is also intended to give the student a basic vocabulary for the appreciation and understanding of a work of art.

BUSINESS EDUCATION

TYPING - INTRODUCTORY - BTY 141

This course is offered to anyone who wishes to learn to type. The basic techniques of touch typing (typing without looking at the keys) should be mastered during this year. Topics covered in detail include: horizontal and vertical centering of material on different sizes of paper; word division; tabulation and the setting up of columns; placement and arrangement of notices, programmes and invitations; simple letters and envelopes; and simple report and manuscript typing. Speed and accuracy will be encouraged, and a net speed (speed less deductions for errors) of 30 words per minute will be expected by the end of the school year.

Students wishing to continue Typing may take BTY 241 in Year 2, followed by BOP 341 and BOP 441 in Years 3 and 4.

ENGLISH

ENGLISH - ENG 131

This course is designed for students requiring special attention in improving their reading skills. The work of the first semester will concentrate on the use of the reading laboratory. The second semester will be of a more general nature with work in literature and language communication. It is hoped that this course will bring sufficient improvement on the part of the student to permit transfer to a regular stream.

ENGLISH - ENG 141

In Language communications, special emphasis is given to the development of effective skills in reading, writing and speaking. Material in Literature will include modern one act plays, novels, short stories, and poetry. The texts for study are carefully chosen to consider the interests, abilities and reading level of the students.

ENGLISH - ENG 151

Beginning in September 1978, the emphasis in this course will be from the language itself. Daily attention will be given to spelling, grammar, the meaning and effectiveness of words, effective sentence structure and well developed paragraphs. Reading and literature will expose the student to the pleasures of the short story, novels, the Shakespeare play, modern plays, mythology and poetry.

FAMILY STUDIES: HOME ECONOMICS

FAMILY STUDIES - FHE 101

"Family Studies has as its focus the well-being of people in the family setting." Students should learn some of the basic skills which contribute to the quality of family living. Development of understanding of and appreciation for family relationships are important goals. The study of food and nutrition is designed to develop a knowledge and appreciation of the importance of good nutrition, meal planning, and preparation to family welfare. Work in clothing and textiles includes study of a variety of textile fibres and fabrics, related consumer education and clothing construction. Both theory and practical work are included.

GEOGRAPHY

CANADIAN STUDIES

Students must take 2 Canadian Studies in the first two years and this will consist of Canadian Geography and Canadian History (at Phase 4 or Phase 5 levels). Students will be assigned to Geography or History in Grade 9 by the school administration according to numbers. For Example, If the student studies Geography in Grade 9, they must take History in Grade 10. The only choice is Phase Level (4 or 5) If a student fails the subject in Grade 9, they must take both Canadian Studies (Geography and History) in Grade 10. Please note that additional courses are available as electives for those students keenly interested in the Social Sciences.

EURASIA - GEA 101

Eurasia the largest land mass on the planet, combines Europe and Asia. This course provides almost unlimited possibilities for the student to explore the variety of cultural landform and economic characteristics on a regional basis. Topics include: Oil in Saudi Arabia, Overpopulation in India, Agriculture in China and social change in developing nations.

Student participation is essential, and class assignments involving maps, photos and group research will be introduced.

GEOGRAPHIC REGIONS IN CANADA - GCA 141 (CANADIAN STUDIES)

The course follows a thematic approach throughout the various regions in the Canadian landscape. Using a variety of visual, verbal and written material, combined with the skills of mapping, graphing and description, students will examine themes such as the disappearing lifestyle of the Newfoundland fisherman, and the cultural mosaic in Toronto, and the changing energy story in Canada. The central theme which flows throughout the course considers the diversity or difference in the human and physical makeup of Canada.

Student participation is an essential component of the course, which will include practical exercises, demonstrations, field work and group study and discussions.

CANADIAN GEOGRAPHY: ISSUES & PROSPECTS - GCA 151 (CANADIAN STUDIES)

The course examines basic materials related to Canada's location and importance in the world. Following this, our attention focuses on specific problems and plans related to geography, such as the Pickering airport, a geographic study of Peel County, Alberta Tar Sands development, and Arctic development.

Individuals will be expected to complete research assignments, seminars and various field exercises. Selection of several topics will depend on the interests of the individual.

HISTORY:CANADIAN STUDIES

Students must take 2 Canadian Studies in the first two years and this will consist of Canadian Geography and Canadian History (at Phase 4 or Phase 5 levels). Students will be assigned to Geography or History in Grade 9 by the school administration according to numbers. For Example, If the student studies Geography in Grade 9, they must take History in Grade 10. The only choice is Phase level (4 or 5). If a student fails the subject in Grade 9, they must take both Canadian Studies (Geography and History) in Grade 10. Please note that additional courses are available as electives for those students keenly interested in the Social Sciences.

THE 20th CENTURY - HCW 141 (CANADIAN STUDIES)

Includes a study of Canada in World War One, Adolf Hitler and the rise of Nazi Germany, World War Two, and Canada during the "Roaring Twenties", the "Unhappy Thirties" and the 1960's. A main objective is to help students to understand today's world better.

THE 20th CENTURY - HCW 151 (CANADIAN STUDIES)

Includes a study of such topics as the rise of Adolf Hitler, World War Two, life during the "Roaring Twenties" and the "Great Depression", and the tragedy of World War Two. An important part of this course includes discovering connections between these topics and the world of today. Students will be involved in using written documents as well as audio-visual materials.

MATHEMATICS

BASIC MATHEMATICS - MAT 131

This course is designed for students requiring special attention in improving their arithmetic skills. The course will strengthen and reinforce the basic operations of Arithmetic. It will apply these operations to problems that the students will be likely to encounter in their future - both personally and in the world of employment.

MATHEMATICS - MAT 141

Work on the number operations with whole numbers, fractions and decimals. Equations, formulas and problems. Areas and Volumes. Plotting charts. Experimental geometry. Liberal use of practical problems from business and industry. This course is more practical than theoretical and intended for students who plan on graduating after year 4 (Grade 12). Technology students who plan on attending a community college should attempt MAT 151.

MATHEMATICS - MAT 151

An introductory course in Algebra. Simplification of algebraic expressions. Factoring. Formal solution of first degree equations and inequations. Development of the number systems through to the real numbers. Geometry and measurement. This course is intended for those students who plan to take Year 5 (Grade 13) Mathematics and for technology students who plan on attending a community college.

MODERN LANGUAGES

FRENCH - LFR 151

This course begins with a review of Grade 7 and 8 topics in their written forms. After a few weeks review, we begin Passeport Francais, Book 11. This course is highly orally slanted, but uses reading and writing to support oral work. The main topics covered are noun forms, adjective forms, simple verbs, and prepositions. Tapes and recordings will help your ear-training. Visuals add to the fun and comprehension aspects. A short reader is used regularly.

FRENCH - LFR 161

PRE-REQUISITE - First Class standing in Grade 8 French and permission of the French Department.

This course continues the book used in Grades 7 and 8, Le Francais International. The first few weeks are spent in consolidation of previous work, then Level 3 of LFI is begun. This course entails adjectives, verb-forms, verb tenses, prepositions, pronouns, and conversational exchanges.

MODERN LANGUAGES Continued

Most of the work is done orally, backed up by written exercises. Visuals and tapes are used for eye and ear training. There is great room for directed and 'free' use of the course content. Since the course is highly oral and highly concentrated, top-notch achievement in Grade 8 is essential.

MUSIC

This year the music department offers three streams of musical studies:

1. Instrumental- choice of any brass, woodwind, or percussion instrument.
2. Vocal - voice training and music appreciation through singing and listening to a variety of recorded music.
3. Strings - choice of the violin, viola, cello, string bass.

Each stream consists of three (3) divisions, performance, theory, and history, that must be completed for one full credit.

NOTE: As part of the credit all students must participate in at least one of the following performing ensembles related to their choice of stream: Concert band, Intermediate band, Junior band, String ensemble, choir. Students may choose only two of these three streams.

INSTRUMENTAL - UMI 151

PRE-REQUISITE - no previous musical knowledge is necessary

The three divisions of this course are:

- a) performance - 4 periods per week to learn how to play an instrument of the student's choice.
- b) theory - 1 period per week to study the basics of music up to the Conservatory Grade One Level.
- c) history - a general survey of different musical eras with emphasis on the composers and their contributions to music.

INSTRUMENTAL - UMI 161

PRE-REQUISITE - a minimum of one year's performance on an orchestral instrument (brass, woodwind, or percussion).

The three divisions of this course are as follows:

- a) performance - 4 periods per week concentrating on further development of technique with special emphasis on tone production.
- b) theory - as for UMI 151
- c) history - as for UMI 151

STRINGS - UMS 151

This is a course offered to the students who wish a real challenge in the studies of instrumental playing. The student has a choice of the violin, viola, cello, or string bass.

PRE-REQUISITE: No previous instrumental experience is necessary, however, the student should know how to read music.

NOTE: Admission to this course is limited and students must have approval from the Music Department before they can be admitted into this course.

The three divisions of the course are:

- a) Performance - the students will learn the basic performing skills on his instrument through exercises as well as appropriate repertory for the beginners level.
- b) theory - same as UMI 151
- c) history - a brief introduction to the four main eras, Baroque, Classical, Romantic and Contemporary with emphasis on the development of Chamber Music and the Symphony.

VOCAL - UMV 151

The three divisions of this course are as follows:

- a) performance - a development of basic vocal techniques and sight reading skills.
- b) theory - as for UMI 151
- c) history - as for UMI 151 with emphasis on the development of vocal music.

PHYSICAL EDUCATION

PHYSICAL EDUCATION - PEB 101 (male)
PEG 101 (female)

It is highly recommended that each student completes three years of Physical Education when qualifying for the Secondary School Graduation Diploma.

PHYSICAL EDUCATION Continued

The grade 9 course is a survey course designed to expose each student to a richer variety of activities. The school year is divided into units of approximately 12 periods. Emphasis is placed on the following:

- a) basic skill development
- b) knowledge of rules
- c) interest in activity and physical fitness.

Activities: Track and Field, Soccer, Rugger, Tennis, Volleyball, Wrestling, Gymnastics, Basketball, Field Hockey, Folk Dance, Badminton, Rythmics, Circuit Training, low organization games.
Some of the activites are limited to boys, others to girls.

Each student must complete 2 units of Health selected from the Peel Board of Education Health Core Programme.

SCIENCE

PHYSICAL SCIENCE - SPS 141

A basic non-mathematical course in physical science for students planning to graduate at the end of Grade 12 (Year 4). It is a study of matter and energy similar to SPS 151 but with emphasis on the experimental techniques, basic concepts in physical science and their application in everyday life and other sciences.

PHYSICAL SCIENCE - SPS 151

PRE-REQUISITE - None, but MAT 151 is recommended as part of the student's programme.

This course is an experimental study of matter and energy. The study of matter includes properties of matter such as density melting points and boiling points; the structure of matter; and the relationship between the two.

A chemical classification of matter will lead into a study of atomic theory and chemical change. Studies of types of energy and conversion and transfer of energy will be included.

TECHNICAL STUDIES

Year 1 and 2 subjects are primarily exploratory in nature. A student is urged to select from a variety of technological areas in order to determine which subject area(s) is best suited to his aptitudes, interests and needs.

TECHNICAL STUDIES ContinUed

YEAR ONE

In Year One choose a one, two or three credit programme. On the first school day in September students will be given an opportunity to select two, four or six of the following available half credit courses:

- TDR 107 - Drafting 1
- TAM 107 - How Automobiles Work
- TWW 107 - Woodworking
- TEY 107 - Electricity 1
- TMS 107 - Machine Shop 1
- TSW 107 - Basic Sheet Metal & Welding

AUTO MECHANICS:

HOW AUTOMOBILES WORK - TAM 107

At this level, the purpose of the course is primarily teaching shop skills and basic knowledge in automotive operation. Two and four stroke cycle engine operation, including lubrication and cooling system, transmission and rear axle are examined. Steering and suspension basics are also covered. Use of films and other audiovisual equipment plus work on actual shop units is extensive.

ARCHITECTURAL DRAFTING:

DRAFTING 1 - TDR 107

This is a basic course in technical drawing. It develops skills in measurement, linework, lettering, sketching and space perception. Topics include shape description (orthographic and pictorial methods), size description (dimensioning and drawing to scale), and some common symbols and coding used in material and process description.

BUILDING CONSTRUCTION AND WOODWORKING:

WOODWORKING - TWW 107

This course provides the student with a chance to develop skills with hand tools and woodworking machinery. Also the student learns about tree structure, different types of wood, basic techniques of finishing, painting, sanding, and layout of a project. A knowledge of how to calculate board feet, do a bill of material and make up a cutting list is also acquired. The emphasis in Year 1 is on the practical portion of the course with special attention given to safety precautions and rules. The Student chooses some of his projects that s/he would like to build.

YEAR ONE Continued

ELECTRICITY:

ELECTRICITY - TEY 107

This half credit course is a fascinating way of learning about basic electricity and electronics by constructing projects and experimenting with small circuits and devices as: bells and buzzers, alarm circuits, lights, meters and other devices.

MACHINE SHOP:

MACHINE SHOP - TMS 107

In this introductory course in Machine Shop, the student is encouraged to develop skills in the use of many general purpose hand tools and in the acquiring of a proper approach to doing the many small mechanical jobs that s/he will encounter both in the shop and around the home. Much of the time is spent on learning how to operate machine tools such as the lathe, shaper, milling machines and drill press.

MECHANICAL DRAFTING:

DRAFTING - TDR 107

This course introduces the basic principles of technical drawing, technical illustration, methods and use of drafting instruments and equipment. The purpose of this course is to develop the student's ability in space perception, visualization, blueprint reading and sketching. Topics to be covered are use of drawing instruments, lettering, orthographic projection and sectional views.

SHEET METAL AND WELDING:

BASIC SHEET METAL AND WELDING - TSW 107

An introduction to the sheet metal, welding and metal fabrication industries. The purpose of the course is to acquaint the student with the industrial skills and the wide opportunities for employment in these fields. The course provides instruction in the use of hand tools, machines, pattern layout, trade specifications, materials, shaping and scaling procedures. The fundamentals of Oxy-acetylene and electric arc welding includes gas welding equipment, electric arc machines, electrode classification, basic brazing similar and dissimilar metals.

YEARS TWO TO FIVE

COURSES OF STUDY

ART

The value which a student receives from the study of art is difficult to calculate. Eventually through actual practice and studio work in a variety of materials, the student will become more proficient technically. But perhaps of greater importance, the student is encouraged and stimulated through his own efforts to be creative, to sharpen his senses, and to develop a sensitivity to the world around him.

CREATIVE ART - ART 251 PRE-Requisite - Recommended ART 151

This course will continue to enlarge the student's experience in art through wide range of activities in drawing, painting, sculpture, ceramics, architecture. The course is open both to students who intend to continue their art education in this year, and to students who intend to continue their art education in succeeding years.

ADVANCED CREATIVE ART - ART 261 PRE-REQUISITE - Recommended 75% in ART 151

This advanced course in art is open to all students who (a) have a definite and keen interest in art and (b) have attained at least 75% (A standing) in ART 151. This course like ART 251, will offer a wide range of art activities but will also introduce the student to techniques in acrylics, water-colours, and to more sophisticated problems in sculpture and ceramics.

SENIOR ART (Years 3 and 4)

Senior visual art courses aim for a well balanced understanding of three basic components; a study of art - past and present, concepts of design, and studio processes. Senior Art courses are designed to cover the major areas of art activity (sculpture, design and painting, etc.) and, therefore, to allow a student a certain degree of specialization in his particular interests. For this purpose no distinction is made between third and fourth year students. Any student with the proper pre-requisites may take any senior art course. The pre-requisites for any senior art courses (except AHI 451) is ART 251 or ART 261. Students without the proper pre-requisites may be admitted to senior art courses with the consent of the head of the department. A senior art course may be repeated at an advanced level but only with the permission of the head of the art department.

Drawing and Painting

NOTE: Two drawing and painting courses may be selected in the senior section for full credits in years 3 and 4. These courses are distinguished in content and emphasis and for purposes of identification are called ADP 451 and APD 451.

LIST OF ART COURSES
ART 251 TO 261

ART Continued

DRAWING AND PAINTING - ADP 451 PRE-REQUISITE - ART 251 or 261

Drawing and painting. Here the student will be encouraged to gain mastery of various materials used in drawing and painting. In fact the emphasis of the course will stress the proper use of materials such as charcoal, conte, pastel, oil, acrylic. The student will be introduced to a number of advanced techniques through which, it is hoped, he will gain more insight into the art of drawing and painting. Reference will also be made to actual examples from art history to clarify the use of the various materials.

PAINTING AND DRAWING - APD 451 PRE-REQUISITE - ART 251 or 261

Here the student will, through various studio projects in oils, water-colours, tempera, charcoal, conte, examine the methods of artists of the past and the various styles of different schools of art through his own creative efforts. Paintings and drawings will be done to master such techniques and styles as hatching, stylization, broken colour, pointalism, cubism, sur-realism, chiaroscuro. Reference will frequently be made to art history as a source for the various techniques and styles.

ART HISTORY - AHL 451

A student in Year 3 or 4 may take this course without any pre-requisite in art.

In this course, the student will examine art and the way art of the past presents insights into the various societies which created works of art. The course will deal mainly with ideas, and the works of art will be presented to illustrate these ideas. (The student completing this course should obtain a deeper understanding of the past and of the present and of the significance of the past in relation to the present). This course will begin with a study of stone age man and progress through considerations of various cultures including Egyptian, Greek, Roman, Byzantine, Gothic, and will end with a study of contemporary art. The study of art history will depend mainly upon the text, History of Art for Young People, slides, resource books, and films.

SCULPTURE AND CERAMICS - ASC 451 PRE-REQUISITE - ART 251 or 261

Three dimensional art. This course provides an intensive exploration into three dimensional forms through work in such materials as clay, plaster, papier mache, soapstone, wood, paper, bristol board, welded material. The student will learn the steps of the ceramic process in both ceramic sculpture, slab pottery and glazemaking and will be expected, to some degree, to develop his own interests and activities in three dimensional art.

ART COURSES Continued

DESIGN - ADS 451 PRE-REQUISITE - ART 251 or 261

This course will not be a rigid study of design but will concentrate on those elements of design and those principles of composition which contribute to a successful work of art. Projects will be done in a variety of materials and in a variety of forms such as graphics, (print making) painting, drawing. This course may also lead to three dimensional work in stage design, architecture, manufacturing design, depending upon the individual student's interests.

LIFE DRAWING - ALD 451 PRE-REQUISITE - ART 251 or 261 and permission of the department head.

Life Drawing (for mature students only). This course provides a study in a variety of materials (oils, tempera, charcoal, conte crayon, pencil, clay) of the human figure. Some time will be spent in the portrait and some time on various aspects of the figure. A study of anatomy will be related to this course as a method of mastering the human figure in drawing and painting.

CREATIVE METAL WORK - TCM 451

This course is designed to give students an introduction to the world of metal work as a new medium in metal sculpture. It teaches the basic techniques of designing, layouts, forming and joining metals by soldering, brazing and welding into the student's own artistic project. Such items as wire sculptures, copper enamelled jewellery, coach lamps, and ornamental scrollwork, will be made providing the student with a means to express his or her work. Stress is laid on the student's creativity, initiative and commitment.

ART - YEAR 5 - ART 551 PRE-REQUISITE - A student may qualify to select this course if he has received two full credits (two senior credits) in Art.

This course offers an examination into current art techniques and trends and will investigate them directly through field trips to current exhibitions in Metro and area. The practical work will offer an opportunity for students to try their own versions and variations of current art in whatever media they may choose. It is assumed that the student will possess an ability to work and study independently in pursuit of his own interests.

BUSINESS EDUCATION

Since the introduction of the credit system there has been a definite change in the composition of most Business Education classes. There are many more students enrolled in various courses now that are interested in the subject for their own personal use as opposed to specifically using the credit as a means of getting a job.

BUSINESS EDUCATION COURSES Continued

Consequently, we offer a wider range of "interest" courses including such subjects as: Data Processing - Computer Concepts, Personal Typewriting, Business Finance - Investments, Consumer Education, Forkner Shorthand, Consumer Law.

Of course, the backbone of most Business Education Departments remains the skill subjects such as: Typewriting, Accounting, Office Practice, Shorthand and Mathematics. We encourage students who seek a career in Business to supplement these courses with some of the "interest" ones.

PRINCIPLES OF FINANCIAL RECORDS - BFR 241 - PRE-REQUISITE: NONE

The primary purpose of this course is to offer instruction in the business and record-keeping activities of consumers and businessmen. Use of business forms related to banking, retail wholesale outlets, clubs, etc. will include: cheques, deposit slips, cash books, invoices, bills of lading, time cards and simple financial reports. Furthermore, a thorough grounding in the purposes of record keeping and the manner in which records and reports organize information to tell a story naturally lead to an introduction to double-entry bookkeeping. This course will be valuable as preparation for more advanced studies in Business Education and also as a completely independent course.

TYPING - INTERMEDIATE -BTY 241 PRE-REQUISITE - BTY 141

This is a second year course in typewriting. It further develops the typewriting skills learned in the first year. New topics to be covered include: the setup for various styles and lengths of business letters, small and large envelopes, letters and tables with carbon copies, tabulations, manuscripts, typing from hand-written work, and more composition at the typewriter. Speed and accuracy will again be stressed at all times. The speed objective for all students by June is 40 net words a minute. This course is designed for a student to whom quick and efficient note production will become important, or for one who is considering a career which involves typing.

BUSINESS MATHEMATICS - BMA 241 - PRE-REQUISITE: NONE

Development of skills in the basic arithmetic operations of addition, subtraction, multiplication and division with whole numbers, fractions and decimals. Mental drills will be an integral part of the course. Simple problem solving will be introduced involving percentages and fractions. Some instruction and practice on business machines will be given in machine operations of addition, multiplication, subtraction, division and multiple operations, as related to simple business applications.

BUSINESS EDUCATION COURSES Continued

DATA PROCESSING AND COMPUTER CONCEPTS - BDP 241 PRE-REQUISITE: NONE

This course is designed to introduce the student to computers, how man controls them and programmes them to relieve much of the drudgery in processing information. Topics covered will include communicating with a computer through a low level and a high level language, computer input/output, central processing unit, simple problem solving using flowcharting, computer programmes and computer applications in modern society. Students will have computer system in the classroom for portions of each term.

BUSINESS COMMUNICATIONS - BCO 341 - PRE-REQUISITE: NONE

The course is designed primarily for students who are taking mostly Business and Commerce subjects; however, we encourage any student who may feel the need for improvement in communications to enroll. Business Communications will attempt to enlarge the student's language background by encouraging him to read, and by offering practice in both oral and written speech. It offers an intensive review of grammar and punctuation rules; exercised to improve the student's ability to spell; writing of personal and business letters, including the letter of inquiry, the letter of remittance, the letter of complaint and replies to these letters. Practice in conversation, the art of listening, and telephone training will attempt to increase the student's confidence in his own ability to communicate verbally.

ACCOUNTING - INTRODUCTORY - BAC 341 - PRE-REQUISITE: NONE

A flexible introductory course that would benefit both those students who will not take any further course in the subject as well as for those who will proceed to further study in accounting. An attempt will be made to satisfy the following objectives: to provide for the student the means of acquiring a thorough understanding of basic accounting principles, concepts and procedures and to provide a solid foundation for possible further study. Topics to be covered will include: analysis of business transactions, journalizing using many different systems, preparation of statement, cash and banking activities.

OFFICE PRACTICE - INTRODUCTORY - BOP 341 PRE-REQUISITE - BTY 241

This course develops further the typewriting skills and techniques learned in the first two years of typewriting. It serves also as a course which aids the students to become familiar with the requirements, the characteristics and the organization of business offices. Topics studied in detail include the typing of business letters with multiple copies; preparation of rough drafts to include more advanced centering and tabulation problems with completion to final report form; office department and grooming; typing spirit and stencil masters, and the use of office machines; filing; postal services; and the proper use of the business telephone. The speed objective for June is 50 words a minute or better.

BUSINESS EDUCATION COURSES continued

PITMAN SHORTERHAND - BSH 341 PRE-REQUISITE - BTY 141

This is a revised course in Pitman shorthand. It is the first year of a two-year programme for year three students who have at least one year of typing, and is designed for the student who wishes to pursue a career in the stenographic or secretarial field of business, or one who wishes to learn quick and efficient note-taking and transcription. By the end of the year, the basic theory is covered and the student should have the ability to write familiar material from dictation at 60 words per minute, and should be able to transcribe this material quickly and accurately.

FORKNER SHORTHAND - BSF 341 PRE-REQUISITE - NONE

This is a one-year course in speed writing for students who wish to develop skill in taking notes at speeds of 60 words a minute or higher. The system is based on the written language as you already know it, with a few symbols added to it. The technique is mastered quickly and useful results appear early in the course. The course is a practical one for personal uses, such as taking down notes in school and at university, from lectures, plays, etc. Students who have at least one year of typing should be able to transcribe their notes quickly and accurately.

CONSUMER LAW - CCL 341 PRE-REQUISITE - NONE, but open to senior students only.

To acquaint the student with his/her legal rights and obligations with respect to all personal business matters. Topics to be covered will include: A brief outline of our Canadian judicial system and its history; Contractual law; Laws of Renting (Apartments, etc.); Real Estate Law (buying of property); Conditional Sales Contracts (buying and selling of cars, appliances, etc.); Employee-employer relations; Motor vehicle Laws; and Laws of Inheritance.

ACCOUNTING - SENIOR - BAC 441 PRE-REQUISITE - BAC 341

Expansion of basic theory including special transactions, petty cash fund operation, cash and banking activities, basic accounting systems including purchasing, sales, inventory control and payroll. Adjustments for financial statements, classified statements, closing and reversing entries will complete the accounting cycle. Some time should be spent on partnership, limited liability and manufacturing accounting. This course should complete a sound basic knowledge in the bookkeeping - accounting field for students who wish either to pursue one of the accounting degrees or enter directly into a vocation in this subject area.

BUSINESS EDUCATION COURSES continued

OFFICE PRACTICE - SENIOR BOP 441 PRE-REQUISITE - BOP 341

In this course typewriting skills and techniques will be developed further. Since this is the last year of a four year programme in typewriting and office practice the students will become familiar with the characteristics and organization of business offices with special office practice projects. All students will spend a minimum of five days in the school's practice office where they will follow as closely as possible the routine of a business office. The school participates also in a Work Experience Programme in which some of the students are employed for a period of one week in an office in the community. The topics of BOP 341 will be studied at an advance level. Legal typing, machine transcription, sources of information, applying for a job and other topics will be studied as well. The speed objective for June is 60-65 net words a minute.

PITMAN SHORTERHAND - BSH 441 PRE-REQUISITE BSH 341

This is the second-year course in Pitman Shorterhand, following BSH 341. The main emphasis will be on transportation and expansion of shorthand vocabulary. By the end of this last year of the programme, students should be able to take dictation at a rate of 100 words a minute or higher. Students will write shorterhand under normal office conditions, making all changes and corrections indicated by the dictator.

BUSINESS FINANCE (INVESTMENTS) - BFI 441 - PRE-REQUISITE: NONE

To acquaint the students with various financial investment plans such as stock market (common and preferred shares); bond market; commodities market; mutual funds; and investment clubs. Emphasis on the analysis of these plans shall be stressed by means of research of: interpretation of company reports and statements; selected readings (periodicals, newspapers and books); and visitations. Trips to Stock Exchange, brokerage houses, etc. will be an integral part of the course. Simple calculations involving percentages will be required throughout the course.

CONSUMER EDUCATION - BCE 441 - PRE-REQUISITE: NONE

The purpose of this course is to familiarize students with the problems of money management on a personal basis. Topics covered include basic economics, consumer aids, agencies, and publications, responsibilities of the consumer to business, saving, borrowing, budgeting, credit, insurance, buying a home, renting an apartment, buying a car and other major purchases, personal income tax. Law relating to contracts and the above-mentioned topics will also be discussed.

BUSINESS EDUCATION COURSES continued

ACCOUNTANCY - BAC 551 - PERMISSION OF DEPARTMENT HEAD.

A no pre-requisite accounting course for senior students who have decided they wish to pursue careers in business either directly from high school or following college or university courses in this field. The objectives would be to provide a better understanding of the business world and a sound foundation for further study of accounting. Topics would include fundamentals of keeping, trading operations, control of cash, fixed assets, departmental accounting, manufacturing accounting and analysis of financial statements. The pace and methodology of this course will closely resemble that of a first year university level program.

ENGLISH

The significance of any individual's existence is determined by how much he can respond to the deepest concerns of life. Maturity demands a sensitive rapport with experience, an ability to choose alternatives - this means opening up experiences, not narrowing them. His fulfillment to himself and his contribution to society depend upon this.

A significance of an education in our society is the attempt to make available the manifold terms of life in all their manifestations to each individual relative to his ability to comprehend them. Education specifically in English must equip the individual for searching into the corners of the deepest human experiences which are common to all men. As teachers of English we neither impose truth nor do we ignore the enigmas involved in the search for truth. Such a search can go on only with enlightened speculation and controversy about all areas of human experience. A major part of a school's function is to keep that search alive by developing in each individual the intellectual maturity and human sensitivity necessary for clear speculation and for handling controversy with intelligence.

In the English classroom this search takes place. By tradition it has been the place where the students have an opportunity to acquire the basic skills of communication - reading, writing, listening and speaking. As a result a major portion of our English programme is aimed at developing these skills in our students to the best of their abilities.

But the English programme is more than just a skill-building facility. The English class can be a place where a student can discover that he is "a human being and, as such, is worthy of study and celebration" and a place where he may gain "an appreciation of the nature and worth of human experience and increased insight into human nature" of which he is an integral part

The best way to help students form general concepts about human nature is to present those concepts in numerous and varied situations through the pages of

ENGLISH Continued

literature, the medium of film, and the participation in theatre arts. Thus our programme attempts to develop skills in the process of examining concepts as they appear in the foregoing media.

ENGLISH - ENG. 231 RECOMMENDED PRE-REQUISITE - ENG 111

This course in remedial and developmental reading may be offered in the 1978-1979 session at the discretion of the English Department. As improvement of reading comprehension is of prime importance in the achievement of objectives for the English programme, students may continue this phase of their work according to progress made at the Year 1 level.

ENGLISH - ENG 241 RECOMMENDED PRE-REQUISITE - ENG 141 or 151

The literature programme will provide a variety of reading experiences based upon the students' needs and interests. These will be experienced in short stories, novels, short plays, poetry and longer drama.

The Language programme, will emphasize the development of the students' ability to express themselves clearly, accurately and logically in both written and spoken English. Application of classroom study to the students' practical need will be an essential part of the programme.

ENGLISH - ENG 251 RECOMMENDED PRE-REQUISITE - ENG 151

The student continues his study of the literary genre, but in greater depth. Special emphasis will be given to North American literature from 1900 to the present. In composition and language study more mature writing assignments and higher standards in the quality of writing will be expected in order to foster in the student a wish to express himself capably in language. The programme in composition will be both creative and positive, leading to progressive improvement of thought and expression. Individual study may be arranged at the discretion of the teacher.

ENGLISH - SENIOR DIVISION

ENGLISH - ENG 341 PRE-REQUISITE - ENG 251 or ENG 241 and permission of English Department or school administration.

This English course is designed for students not proceeding to fifth year English. Writing assignments will be short concentrating upon accuracy and precision using basic skills. A wide variety of reading experiences concentrating upon writers of this century will be offered.

ENGLISH - SENIOR DIVISION cont

ENGLISH - ENG 441 PRE-REQUISITE - ENG 301 and permission of English Department or School administration.

This programme is for students who have experienced some difficulty in English in the past. It is not designed to equip students intending to study English in year five. Written assignments will continue to stress ease and accuracy of expression as well as assistance in basic skills where necessary. The literature programme will emphasize the individual's concerns as experienced by writers in all types of literature.

ENGLISH ENG 301 RECOMMENDED PRE-REQUISITE - Year 2 English

ENGLISH ENG 401 RECOMMENDED PRE-REQUISITE - 301

The basic unit of instruction will not be the year course as in the past, but instead, the trimester (10 cycles or approximately 12 weeks). Three trimesters comprise a school year.

The subject matter will be divided into unified, coherent trimester courses called Electives. Students will be allowed to choose most of the electives they wish to take. Only one elective, Senior Composition, is compulsory and must be taken as part of the English 301 programme. The remaining electives are to be selected by the student.

Each elective is assigned a value of 1/3 credit. Year-end promotion will be based on the average of marks obtained in the electives undertaken in the year. If his average is 50% or higher, a student will be granted one credit in Senior Division English even though he may not have passed every elective.

Electives

Electives will be offered only if there is sufficient demand and if staff resources permit. Students may, therefore, have to accept a second choice elective. Detailed descriptions of the electives will be provided later to assist students in selecting their electives. Teachers in the department will also provide guidance. The electives will include Science Fiction, Writing, Shakespeare, Novels of Struggle, Focus on Women, Youth in Conflict, a Taste of Drama, Canadian Literature, among others.

ENGLISH Continued

ENGLISH - YEAR 5 - ENA 551 RECOMMENDED PRE-REQUISITE - ENG 401

In his final year of English studies, the student is challenged with both the breadth and depth of his studies. He will be offered a number of electives from which a selection of any three will make up the year's work. The electives will include Shakespearean Drama, Canadian Novels, American Literature, Comedy, Twentieth Century Drama, Satire, Modern Poetry. As English is an integrated process, attention will be directed to all aspects and effects of the various works, that is to reading, speaking, writing and language study rather than to any of these in isolation.

ENGLISH - YEAR 5 - ENB 551 RECOMMENDED PRE-REQUISITE - ENG 401

This course is offered to students who desire a second credit in Year Five English. It will consist of a study of either six of the electives described in ENA 551 or five of those electives as well as the completion of an individual study project.

NOTE: Students of Year Five English who desire one credit will indicate ENA 551 on their selection sheet. Students who wish two credits must indicate both ENA 551 and ENB 551 on their selection sheet.

FILM ARTS

FILM ARTS - EFA 301

This course is an introduction to the medium of film. Students will experience an involvement in film by making several short films during the year. These films will give students the opportunity to employ their own ideas and to practice filming styles discussed in class. Each film will also be accompanied by a sound track. In addition to making films, students will review films for meaning and technique. Areas of emphasis in the course will be: the narrative film, animation, filming techniques, scripting, editing, the camera, sound tracks, and social problems in film. Films will be shown, whenever possible, to illustrate styles and techniques discussed in class work.

FILM ARTS - EFA 401 RECOMMENDED PRE-REQUISITE - EFA 301 or permission of the department.

This course is a logical continuation of EFA 301 Film Arts. Several concepts introduced in EFA 301 will be reviewed and expanded in this course. Some of these are exposure, filming techniques, animation, special effects, script techniques,

FILM ARTS - EFA 401 Continued

editing, and the camera. The course will place its major emphasis on the production of films -- all students will be involved in making films. The impact of Super 8 m.m. films will be heightened with the addition of a sound track and an aim for technical excellence. We shall be discussing topics such as: film stocks, lighting, colour, composition and use of sound. During the second term it is hoped that all students will take part in the production of at least one 16 m.m. film.

THEATRE ARTS

THEATRE ARTS 3 - ETA 351

Exercises in creative drama will be a major part of the course this year. The emphasis will be on dramatic presentation. The students will prepare a number of workshop improvisations and performances. The emphasis is on working with others, teaching the need for co-operation and self effort.

The course will include workshops in design, sound, and movement, and will culminate in the production of a student prepared performance.

THEATRE ARTS 4 - ETA 451 RECOMMENDED: ETA 351 or permission of department.

This course will combine the skills of experimentation and presentation already mastered. Through creative drama, students will experiment with plays selected from the Development of Western Theatre. Greek, Roman, Medieval, Elizabethan, Restoration, Nineteenth Century and Modern Drama will be explored.

Students will participate in workshops involving design, sound and movement and will present a modern one-act play.

THEATRE ARTS 5 - ETA 551 RECOMMENDED: ETA 351 and ETA 451 or permission of the department.

This course may be offered in 1977-1978 if there is sufficient enrolment. This course is a logical, continued growth of Years 3 and 4, Theatre Arts. It will combine aspects of creative drama with those of dramatic presentation. The emphasis is on modern theatre and on group work which should produce up to four workshop productions for some audience during the year. Students will consider theorists of the modern theatre; Appia, Brecht, Stanislavski, Grotowski, Brook and Artaud. They will also experiment with plays that have influenced the development of modern drama from:

THEATRE ARTS:5 - ETA 551 (Cont'd.)

- The Beginnings of Modern Drama - Ibsen, Chekhov, Shaw
- European Theatre - Brecht, Durrenmatt, Pirandello
- British Theatre - Pinter, Fry
- American Theatre - Miller, Williams
- Canadian Theatre - Reaney, Freeman
- Experimental Theatre - Beckett, Ionesco

The plays will be chosen in an attempt to complement the Year 5 English course. Students will be researching and learning newer concepts of stage, set and costume design, lighting techniques, make-up techniques (e.g. masks) as well as reinforcing their knowledge of what is necessary to make a theatre run.

FAMILY STUDIES (HOME ECONOMICS)

The Ministry of Education in its 1973 Interim Study Document for Family Studies provides the following description and general aims:

"Family Studies is an applied field of knowledge with roots in many disciplines. To organize this extensive knowledge, it is possible to divide the field into five areas: family and child development, management of family resources, housing, food and nutrition, and clothing.

"The following aims apply to all areas of Family Studies:

- * to appreciate the family as an environment which has a profound effect upon its members.
- * to learn some of the basic skills which contribute to the quality of family living.
- * to learn as much as possible about family relationships that contribute to the fulfillment of each family member and to develop commitment to the building of such relationships.
- * to understand and appreciate that many decisions in all areas of family living are, in the ultimate analysis, decisions affecting personal relationships.
- * to develop the ability to attack problems independently and to make decisions sensibly and humanely."

FAMILY STUDIES FHE 201 PRE-REQUISITE FHE 101

The year two course is a general Family Studies programme building upon the basic work in family, food, nutrition, clothing, textiles and related studies from year one, focussing on these areas as they concern Canadian families and extending the students' experience in both theoretical and practical areas.

FAMILY STUDIES (HOME ECONOMICS) FHE 301

The year three course has two main sections:

The first, FAMILY AND CHILD, includes a consideration of the influence of the family on the child and the effect of the child on the family, child development in the family setting, responsible parenthood, effects of social change on family functions and structure, and family traditions including (food traditions) as important components of cultural heritage.

The second section, CLOTHING, includes: clothing throughout history and across cultures, clothing and the family, clothing and the consumer, clothing as a form of artistic expression and communication, and clothing as a creative effort.

FAMILY STUDIES (HOME ECONOMICS) FHE 451

This course has three main sections:

Section one, FOOD AND NUTRITION, includes a study of world wide nutrition problems and food resources, food and man throughout history, food traditions of other cultures, and application of nutrition information.

Section two, MANAGEMENT, includes a study of the application of management principles to the use of resources for personal and family living, and the relationship between management of resources and the quality of family life.

Section three, HOUSING, includes a study of the effects of the housing environment on the individual, family and community, the many influences on housing, housing throughout history and across cultures, design and the home, and housing and the consumer.

FUTURE SURVIVAL - FHS 401

A one year course intended primarily for senior students with little or no previous formal study of Family Studies. Emphasis will be on skills needed for "survival" as independent adults, with focus on: human nutrition and cuisine, competence as a consumer and a manager of both human and material resources and selection of living space: creation and maintenance of a pleasing environment for daily living.

CANADIAN FAMILY IN PERSPECTIVE - FCF 551 PERMISSION OF DEPARTMENT HEAD.

The Year Five course, The Canadian Family in Perspective, correlates many fields of study in its consideration of the changing contemporary family in Canada.

The units include:

1. The Canadian Family in Historical Perspective.
2. Socialization: a Prime Function of the Family.
3. One Aspect of Contemporary Canadian Family Life - either Economics and the Family or Food and the Family or Housing and the Family.
4. The Family in Cross-Cultural Perspective.
5. Special Topic for Independent Study.

GEOGRAPHY

Geography is the study of the relationships between human beings and their environment. The subject of geography involves the study of the patterns and the distributions of physical features, resources and human activities.

The distribution patterns usually fall under such categories as Physical (e.g. land forms and climate), Human (e.g. slum areas, population patterns, cultural groupings) and Economic (e.g. resources, and transportation networks). Courses in Geography places a high priority on the presentation of current and meaningful material. It is our hope that, in doing so, students will relate personally to the analysis of their world and its societies.

The Geography Department offers eleven courses. Two of these courses GRG 251 and particularly GPH 351 contain content which should be considered as fundamental to the study of Geogaphy at the secondary school level. Students who wish to take Grade 13 Geography (GCS 551) are strongly advised to have GPH 351 in their background. In addition, students should consider GRG 251 as part of their preparation for Grade 13 Geography.

CANADIAN STUDIES

Students must take 2 Canadian Studies in the first two years and this will consist of Canadian Geography and Canadian History (at Phase 4 or Pase 5 levels). Students will be assigned to Geography or History in Grade 9 by the school administration according to numbers. For Example, If the student studies Geography in Grade 9, they must take History in Grade 10. The only choice is Phase level (4 or 5). If a student fails the subject in Grade 9, they must take both Canadian Studies (Geography and History) in Grade 10. Please note that additional courses are available as electives for those students keenly interested in the Social Sciences.

GEOGRAPHIC REGIONS IN CANADA - GCA 241 (CANADIAN STUDIES)

The course follows a thematic approach throughout the various regions in the Canadian landscape. Using a variety of visual, verbal and written material, combined with the skills of mapping, graphing and description, students will examine themes such as the disappearing lifestyle of the Newfoundland fisherman, and the cultural mosaic in Toronto, and the changing energy story in Canada. The central theme which flows throughout the course considers the diversity or difference in the human and physical makeup of Canada.

Student participation is an essential component of the course, which will include practical exercises, demonstrations, field work and group study and discussions.

GEOGRAPHY COURSES Continued

CANADIAN GEOGRAPHY: ISSUES & PROSPECTS - GCA 251 (CANADIAN STUDIES)

The course examines basic materials related to Canada's location and importance in the world. Following this, our attention focuses on specific problems and plans related to geography, such as the Pickering airport, a geographic study of Peel County, Alberta Tar Sands development, and Arctic development.

Individuals will be expected to complete research assignments, seminars and various field exercises. Selection of several research topics will depend on the interests of the individual.

ECONOMIC GEOGRAPHY: RESOURCES AND RESOURCE PLANNING - GEC 301

The purpose of this non-phases course is to examine critically man's use of his natural resources. By studying various types of economic activity, the patterns, values and conflicts which arise are revealed. Topics such as hunting, gathering, nomadic herding, fishing, mining, farming, transportation, manufacturing and energy will be studied so that students can obtain a fundamental grasp of economic activities as they are practised around the world. Students will be encouraged to work on special interest topics using a wide range of materials which are available for this course.

EARTH FORMS AND CHANGE: A STUDY IN GEOGRAPHIC ELEMENTS - GPH 351

As the title implies, the course examines the present earth formations and their change and modification through time. Aspects of astronomy, geology, meteorology and climatology will be explored on both an elementary and advanced level, depending on student interests, ability and background. Geographic skills will be introduced which are essential tools for advanced geography courses in higher levels. Materials examined will include topographic maps and serial photographs, weather forecasts and equipment, satellite photos, remote sensing and others.

Students participation is an essential requirement for the course, as it will involve theoretical discussions, student demonstrations and presentations, practical field exercises and lab experiments.

This course is a pre-requisite for Year 5 Geography, particularly in the phase five stream. Students who wish to select GCS 551 are encouraged to complete this course for background preparation.

GEOGRAPHIC - ENVIRONMENTAL STUDIES - GES 401

This course focuses on four particular themes: Man's Natural Environment and its Components, Man within the Natural Environment, Man's modification of his Environment, and Planning for a Future Environment. Such questions as what was the environment like before man arrived: How did man initially adapt to his environment? Has he been successful in modifying it? and, How may he manage his resources to ensure a useful environment will be maintained? Will

GEOGRAPHIC - ENVIRONMENTAL STUDIES - GES 401 Continued

be considered. Group work, individual research and field work will be among the study methods used.

URBAN GEOGRAPHY - CUR 451

This course focuses upon the city in Canada. Students can examine the historical factors which led to our present city scene, the reasons why towns and cities are located as they are today, and examine the internal characteristics of our major cities. Topics such as social problems, political structures, theories of urban structure, land uses, transportation networks, industrial location, shopping patterns, town planning, and parks and recreational facilities will be among those studied. Group work, individual research and fieldwork will be among the study methods used.

CANADA - GCS 551 PRE-REQUISITE - Students of this course are strongly encouraged to have the contents of GPH 351 Geography in their background.

The senior geography course examines current themes as they apply to Canada or certain areas of the country. For instance, the pros and cons of the Mid-Canada Corridor proposal as it applies to the Near North will be a subject of study. Other Canadian issues dealing with ownership of resources, migrations of people, regional and resource planning, are some of the categories from which themes are drawn. Personal research and field work, some of which is based on previous courses, are encouraged as part of the course. For those students who choose both GCS 551 and HCU 551, attempts will be made to bring the two courses together in ways that will help you to understand better the content of both courses.

HISTORY AND SOCIAL SCIENCE

This department is devoted to helping Canadian youth understand themselves, their society, and world in which they live. In addition, our aims are to help students to think critically and to acquire those skills which will lead to the full development of their capabilities as human beings.

Courses other than History courses offered include Economics, Law, Man in Society and Politics.

Students must take 2 Canadian Studies in the first two years and this will consist of Canadian Geography and Canadian History (at Phase 4 or Phase 5 levels). Students will be assigned to Geography or History in Grade 9 by the school administration according to numbers. For Example, If the student studies Geography in Grade 9, they must take History in Grade 10. The only choice is Phase level (4 or 5). If a student fails the subject in Grade 9, they must take both Canadian Studies (Geography and History) in Grade 10. Please note that additional courses are available as elective for those students keenly interested in the Social Sciences.

THE 20TH CENTURY - HCW 241 (CANADIAN STUDIES)

Includes a study of Canada in World War One, Adolf Hitler and the rise of Nazi Germany, World War Two, and Canada during the "Roaring Twenties", the "Unhappy Thirties" and the 1960's. A main objective is to help student's to understand today's world better.

THE 20TH CENTURY - HCW 251 (CANADIAN STUDIES)

Includes a study of such topics as the rise of Adolf Hitler, World War Two, life during the "Roaring Twenties" and the "Great Depression", and the tragedy of World War Two. An important part of this course includes discovering connections between these topics and the world of today. Students will be involved in using written documents as well as audio-visual materials.

CANADA'S MULTICULTURAL HERITAGE - HMU 201 NOTE: This course may be taken by students who are already taking HIS 241 or HIS 251, but wish an additional History course.

This course looks at the contributions made by the many nationalities who settled here. In our local history section we will look at the persons who settled in Peel around Port Credit. A field trip will be part of this unit. Later study will focus on the Eskimo, and the Indian from Eastern and Western Canada. Questions to be analysed in this course are: Is Canada's immigration policy racist; what qualifications are necessary for an immigrant to enter Canada; Why do you suffer culture shock when you travel to French Canada; and what are the advantages to being a Canadian citizen? A special "Ethnic Day" will be part of this course when all students will experience the food, customs and culture of the many Canadian ethnic groups. This course will include student discussion of the above issues, student debates, films and guest speakers.

GRADE 11 LAW - HLW 301

This course is not open to those who took the CLC/CLW 207 law course. HLW 301 will focus on legal issues that are of critical concern to today's society. Some of the topics under examination are: "Organized Crime and the Mafia", "The Criminal Personality", "Violent Teenage Gangs", "Native Peoples Land Claims", "Electronic Bugging and Police Power", "Terrorism and Political Kidnappings", "The Legal Rights of Women", "Strikes, Unions and Labour Law". The course will include student discussion of issues, field trips, feature films, and guest speakers

This course is designed to assist the Port Credit student in answering two basic questions about themselves, "Who am I" and "What is my Purpose in Life". Special attention will be given to the student's education, rights and family life.

Themes running through the course include comparisons with other cultures and an evaluation of the effect of social status on social life. Other topics discussed will be prejudice, poverty, violence and drugs in sport, rape and women's "lib".

Since Port Credit Secondary School students live in a city, time will be spent looking at the social planning, recreation facilities and services of Mississauga.

A field trip will provide added information on this theme. Similarly films, guest speakers and student debates will be part of CMS 341.

THE ANCIENT WORLD - HMR 341

This course examines the lives of strange people in the mysterious lands of the Ancient World. It attempts to unravel man's early progress from the caves to civilization.

This course is centred on great personalities who left their mark on the Ancient World. Among them are Julius Caesar, Christ, Cleopatra, Hannibal, Alexander the Great, Nero, Mohammed and Augustus.

It also looks at some of the life-styles of the early world. Egyptian pyramid building and burial practices, the incredible hardship of Spartan life, Roman luxury gladiators, war, presentation of early Christians and many other topics go to make up a different approach to history.

A STUDY OF ANCIENT CIVILIZATION - HIS 351

The origins of man are examined in this course. Through an analysis of the Greek, Roman and Islamic Empires O their rise and fall O comes an awareness of their contribution to today's world. An investigation of the great religions related to this period - Judaism, Islam and Christianity - will bring greater insight to this study.

Great names encountered in this course are Julius Caesar, Hannibal, Muhammed, Plato, and Jesus Christ.

Films, filmstrips, videotape and guest speakers form an integral part of this course. A field trip is an option in which students may wish to take part.

MODERN POLITICS - HMP 351

A study of the basic strengths and weaknesses of life under Democracy and Totalitarianism (i.e. Communism and Fascism). How can we, living in a Democracy, bring about needed changes? Why do some societies support totalitarian governments? How does totalitarian government control the lives of its people?

Discussion of major political news stories such as Watergate, Quebec separation and Eskimo uprisings will play a part in this course. Personalities such as Pierre Trudeau, Jimmy Carter and WHO will be discussed.

Guest speakers, debates, films and an optional field trip are also included.

TODAY'S WORLD - HWP 401 No pre-requisites

Two thirds of the world's population live in the shadow of death from starvation and disease. The numbers are growing each year. How is it that some countries are rich, others poor? This course explores the causes and effects of under-development in the Third World. Issues such as the population explosion, illiteracy, disease and poor sanitation are studied. Other related themes pursued are the appeal of Communism and on part government, foreign ownership in Canada, Black versus White in South Africa and the modern day societies of China and Cuba.

Group work, seminars, debates, films and a possible field trip will be part of this course.

AN INTRODUCTION TO ECONOMICS - CIE 451 PRE-REQUISITE - One previous Phase 5 History or Politics course.

Economics is the study of how man solves the problem of making a living. With this in mind the course is divided into two parts. The first is a study of the Canadian 'market' economic system in comparison to the 'command' economic system of the Soviet Union. The second part involves a more detailed examination of today's Canadian economy including a study of inflation, money and banking, labour unrest and international trade. Student debates, guest speakers and a field trip will comprise parts of this course.

THE RISE OF MODERN MAN 1600 - 1945 - HMR 451 PRE-REQUISITES - Any one History or Politics course at the Phase 5 level or permission of the Head of the History Department.

This course examines the ideas and events between the 17th and 20th Centuries which have shaped our modern world. Among these are the great revolutions in America, France and Russia, the achievements of Napoleon, Bismark, and Hitler, the effects of nationalism, industrialism and war. The contributions of men such as Newton, Locke, Voltaire, Darwin, Freud and others will also be examined.

Students will take part in role playing, debates and group seminars. Guest speakers as well as debates between teachers will interest students.

Part of the student's time will be spent outside the classroom in individual research assignments.

CANADA AND THE UNITED STATES - HCU 551 PRE-REQUISITES - One previous Phase 5 History, Politics or Economics course or the permission of the Head of the History Department.

The first part of the course is a study of American foreign policy from Presidents Washington to Carter. This will include the birth and growth of the United States and the development of its relations with Canada and the rest of the world. Some of the topics to be considered will be the Watergate Scandal, the Bay of Pigs fiasco, and the assassination of the Kennedys.

The second part of the course will be an investigation of French Canadian/English Canadian relations and an analysis of Canada's search for a national identity. The 1970 FLQ Crisis and the significance of the threat of Rene Levesque to Canada's future will be two of the issues studied. Group work, seminars, guest speakers, a field trip and lectures will be some of the approaches utilized.

LANGUAGES - CLASSICS

The study of Latin encourages mental discipline of a type which students generally lack. The discipline imposed by even a year's study of Latin will aid a student in his approach to all subjects and will provide him with a sound knowledge of the structure of his own language. A knowledge of Latin and Greek will make the student resourceful in discovering the meaning of English words. Latin and Greek in the later years present the authors whose ideas and styles have influenced the philosophy and literature of all succeeding generations. For the receptive student, the courses can open up many fields of interest. Any student who intends to do work in English or in Modern Languages at the University will find the training of the Classics invaluable. For those who consider pos-graduate work in Philosophy and History it will also be an asset. The student who is willing to accept the demands imposed by the study of Latin and Greek is enriching himself far more than he realizes at the time.

NOTE: We will offer these courses at the Grade 11, 12, 13 levels but point out that there must be sufficient enrolment to ensure their continuation.

LATIN

INTRODUCTION TO LATIN - LLA 251 NO PRE-REQUISITE

The Latin beginners' course includes Latin grammar but the new text stresses the reading of Latin, the study of English words derived from Latin and life in Roman times.

LATIN - LLA 351 PRE-REQUISITE - LLA 251

The second course in Latin follows the same pattern as LLA 251 and uses the third and fourth series of the new text.

LATIN - LLA 451 PRE-REQUISITE - LLA 351

The third course in Latin completes the study of basic Latin grammar. Reading Latin rather than translating from English to Latin is given priority. Such Latin authors as Suetonius, Pliny, Catullus, Ovid and Vergil are introduced in this year.

LATIN - LLA 551 PRE-REQUISITE - LLA 451

The course at this level includes a review of Latin grammar and composition and adds additional points of syntax. The student reads more of Catullus, Vergil and Pliny and is introduced to Horace and Cicero. Emphasis is placed upon reading Latin at sight.

LANGUAGES - CLASSICS Continued

GREEK - LGR 551 PRE-REQUISITES - LGR 451

Because only a few discriminating students elect the study of Greek, the course is offered in a three year cycle. In the year 1978-79 the final year (LGR 551) is offered. The student continues the study of Greek composition and syntax, but the stress is on reading Greek. More Homer and Plato is included in the course and the student is introduced to the writings of Herodotus and Thucydides.

N.B. LGR 351 - Beginners' Greek will be offered if there is no class in Greek 551

LANGUAGES - MODERNS

Language is communication. By the end of the senior course, you should be able to understand the target language with good comprehension, and be able to express yourself (on non-technical matters) with sufficient clarity to be easily understood by a native speaker. Your reading should be fairly fluent and your writing skill sufficient for your personal needs.

Language is communication, but students have many uses for communication: some may wish to travel; others may wish to make friends among speakers of other languages; others may need a language in the future occupation. Whatever the specific need, you will need to build on listening and speaking skills and this will require active effort on your part.

FRENCH

FRENCH - LFR 251 PRE-REQUISITE - LFR 151 or LFR 161

This course continues the Passeport Francais series begun in LFR 151. Verb tenses, adverbs, prepositions, object and subject pronouns are the main grammar topics. The text is highly conversational, but written work will reinforce the oral aspect. A short reader is also used along with tapes, discs and films.

FRENCH - LFR 261 PRE-REQUISITE - LFR 161

This course is offered when numbers permit. LFR level 4 is used. Verb tenses, word-study, and freer use of grammatical features are stressed. Films, slides, readers, tapes and discs will build all-round oral, aural and mental skills. Readings of more mature level than in LFR 251 are employed.

FRENCH - LFR 351 PRE-REQUISITE - LFR 251 or 261

This course continues the Passeport series begun in Grade 9. This year, stress is laid on verb-forms and pronouns. Authors' stories are taken from extra texts, to increase vocabulary and to provide bases for oral discussion. Slides, filmstrips, records, and occasional films will add to cultural and linguistic appreciation of French.

LANGUAGES - MODERNS Continued

FRENCH - LFR 361 PRE-REQUISITE - LFR 261 & permission of the Department.

This course continues the series LFR from 261. The stress will be on the uses of verb forms such as subjunctives and conditionals. Insights into the idiomatic uses of French, both in meaning and word-forms. Reading of current situational uses. Stress is on the oral-communicational use of language.

FRENCH - LFR 451 PRE-REQUISITE - LFR 351 or 361

This course finishes the Passeport Series, Books VII AND VIII. The concentration in grammar is on verbal forms. Oral discussions on topics of current importance to teenagers provide vocabulary and ear-practice. Short stories expand your vocabulary. A-V presentations provide cultural insights.

FRENCH - LFR 551 PRE-REQUISITE - LFR 451

This course follows the old core of Grade 13 but with a much greater oral stress. Topics will include: a) uses of prepositions; b) verbs and objects; c) passives; d) conditionals; e) subjunctives; f) review of tenses. The Authors section includes selected short stories and a modern play. Recordings, slides, filmstrips and full-length and short films are used. A study is made also of French language and its English counterparts. Word studies of tricky English expressions are covered. French 'culture' is touched upon, as well as French 'cuisine'. Hopefully, we shall have excursions to French locales in Toronto and (if sufficient students participate) even to the Province of Quebec.

GERMAN

NOTE: We will offer these courses at the Grade 11, 12, 13 levels but there must be sufficient enrolment to ensure their continuation.

GERMAN - LGE 251 NO PRE-REQUISITE, but prior foreign-language achievement desirable.

This introductory course is highly oral in nature. Basic noun, adjective and verb-forms are covered. Vocabulary is modern and colloquial. Useful situations are used as bases for structural patterns. Grammatical explanations are clear and concise. Written exercises reinforce vocabulary and grammar.

GERMAN - LGE 351 PRE-REQUISITE - LGE 251

We begin the second volume of the LGE 251 course and begin to read simple but interesting modern stories. Again, the stress is oral, but not to the detriment of reading and writing. Idioms and simple poems are begun this year. A selection of German Lieder is used, as well as films and slides.

GERMAN - LGE 451 PRE-REQUISITE - 351

The main topics of this course grammar are: verb tenses, modal verbs, uses of the subjunctive mood, conditional sentences, and the passive voice. Idioms of the mature level are also covered. This course concentrates on speaking and reading rather than grammar. One short novel and the operetta "The Merry Widow" are covered. Slides, films, Lieder, and excursions aid in Kultur.

GERMAN - LGE 551 PRE-REQUISITE - LGE 451

A refreshing grammar review is done in the first term. Short stories are covered as "Authors". Oral work will be stressed in both composition and authors classes. Word-study and idiom are stressed.

NOTE: We have every confidence that the German courses in Grades 11, 12 and 13 will be well subscribed, but point out that there must be sufficient enrolment to guarantee their continuation.

MATHEMATICS

We hope to give students the power to meet and solve everyday problems in an organized way. To do this we teach three basic methods of reasoning; deduction-analysis and induction. Deduction is the reasoning used by logicians. By starting with accepted facts and using rules of logic, a series of statements is built up until the desired statement is arrived at. Most proofs in mathematics are accomplished in this manner, especially deductions in Euclidean Geometry. Analysis allows us to decompose a complex problem using a step by step procedure. Without this knowledge one would not be able to programme a computer. Induction is an experimental way of thinking. Pattern formations and analogies are important in making conjectures which are really only educated guesses. This procedure encourages creative thinking.

We hope to show students how mathematics contributes to the understanding of natural phenomena. Almost any event or situation can be considered from an organized, logical and systematic point of view.

Our investigations illustrate how mathematics contributes to our cultural heritage. We introduce the history of mathematics at appropriate times and show how our subject integrates with other subjects on the curriculum.

Students learn the necessity of communicating concepts and facts correctly, clearly and precisely to others.

Although all the aims mentioned above are important, we hope to develop more than vocabulary, facts, skills, techniques and principles, more than the ability to analyze a problem, more than the ability to deduce the conclusion from given facts, more than the understanding of a mathematical system. We hope to develop minds which can use the logic of mathematics to distinguish fact from opinion, the relevant from the irrelevant and experimental results from proven theorems. It is our desire to stimulate curiosity so that these young minds will enjoy exploring new ideas and theories.

MATHEMATICE - MAT 241 PRE-REQUISITE - Year 1 Mathematics

Extension of the areas covered in MAT 141. Irrationals, square roots. Relations and linear functions. Ratio and proportion. Purchasing or personal property including a comparison of effective interest rates. This course is more practical than theoretical and is intended for the students who plan on graduating after year 4.

MATHEMATICS - MAT 251 PRE-REQUISITE - MAT 151

Number systems reviewed. An introduction to finite system. Operations with radicals. Relations and functions. Deductive Geometry.

MATHEMATICS - MAT 341 PRE-REQUISITE - Year 2 Mathematics

An extension of topics covered in MAT 241. Radicals and exponents, analytic geometry of the straight line. Linear systems, vectors, personal finance, income tax.

MATHEMATICS - MAT 351 PRE-REQUISITE - MAT 251

Review of number systems, polynomials and rational expressions, radicals and radical equations. Euclidean Geometry - ratio and proportion, similarity. Analytic Geometry. Trigonometry.

MATHEMATICS - MAT 441 PRE-REQUISITE - Year 3 Mathematics

Polynomials, rational expressions and quadratic functions. Sequences and series, logarithms, trigonometry, mathematics of investment and home ownership.

MATHEMATICS - MAT 451 PRE-REQUISITE - MAT 351

NOTE: This course is intended for students who plan on taking any Year 5 Mathematic Courses.

Real valued functions, quadratic functions and equations. Exponentials and logarithms, trigonometry, sequences and series, geometry of the circle.

ALGEBRA - MAA 561 PRE-REQUISITE - MAT 451 and the permission of the Department Head.

An in-depth study of vectors to include dot product and its application to trigonometry, geometry and physics. Linear dependence and independence. Intersection of lines and planes, and planes and planes. Mathematical induction. Combinators. Matrix Algebra. Binomial theorem. Solution of Linear Systems using the Matrix. A study of Mathematical probability.

Students who choose this course should also take MAC 551 and MAR 551.

MATHEMATICS Continued

CALCULUS - MAC 551 PRE-requisite - MAT 451

Sequences and limits. Slopes of a curve and the simple derivative. Derivative Rules. Implicit Different tion. Derivatives of the trigonometric functions. Velocity and Acceleration. Rate problems. Maxima and Minima. The Anti-Derivative. Simple differential equations. Areas and rate of change. Volumes of Revolution. Complex numbers and Polar Coordinates. De Moivre's Theorem.

RELATIONS AND FUNCTIONS - MAR 551 PRE-REQUISITE - MAT 451

Functions, mappings and graphs. Trigonometry including compound angles. Circle, Parabola, Eclipse and Hyperbola equations and transformations of these conics. Mathematics of Investment.

MATHEMATICS OF INVESTMENT - MAI 551 PRE-REQUISITE - MAT 441 or MAT 451. If a student has MAT 441 he requires permission of the Math Department Head.

This course is designed for students who need a mathematic credit in Year 5. The course is intended to make the student aware of the Mathematics involved in everyday living. Many students may find such a course helpful if they are planning to enter accounting, insurance, office work or any of the many types of positions found in the world of finance. It is a course which should interest many persons who are involved in buying a house or a car, purchasing on credit or attempting to involve themselves in financial matters. Topics on the course include techniques used in simplifying mathematical calculations, simple and compound interest, present value, annuities, bonds, mortgages, advantages and disadvantages of renting or buying, borrowing money, buying on credit (chargex, etc.)

NOTE: Students should ascertain if this course is acceptable to the University that they wish to attend.

MUSIC

The general objectives of the Music Programme include:

- Achieving a general knowledge of music of many types through exposure to them.
- Achieving a competent and effective personal technique.
- Developing sight reading skills providing opportunities for joining others in the performance of music.
- Deepening appreciation for and sharpening of discrimination in music-making.

NOTE: As part of the credit all students must participate in at least one of the following performing ensembles related to their choice of stream:
Concert Band; Intermediate Band; Junior Band; String Ensemble; Choir.

This year the P.C.S.S. Music Department offers three streams of musical studies:

1. Instrumental - choice of any brass, woodwinds, or percussion instrument.
2. Vocal - voice training and music appreciation through singing and analysing a variety of recorded music.
3. Strings - choice of a violin, viola, cello, string bass.

Each stream consists of three divisions, performance, theory and history, that must be completed for one full credit.

INSTRUMENTAL - UMI 251 PRE-REQUISITE - UMI 151

The three divisions of this course are as follows:

- a) performance - further development of technique on the chosen instrument of the previous year, with special emphasis on tone production.
- b) theory - completion of rudimentary music theory to the end of conservatory grade 2 level - one period per week.
- c) history - a study of the Baroque era. A thorough study of the style of this music with comparison to the socio-economic conditions at that time in Western civilization.

MUSIC COURSES Continued

INSTRUMENTAL - UMI 261 PRE-REQUISITE - UMI 161

The three divisions of this course are as follows:

- a) performance - continual emphasis on tone production. Special emphasis is placed on intonation and articulation.
- b) theory - as for UMI 251
- c) history - as for UMI 251

INSTRUMENTAL - UMI 351 PRE-REQUISITE - UMI 251 or UMI 261

The three divisions of this course are as follows:

- a) performance - emphasis is on phrasing and the introduction of senior level concert band repertoire.
- b) theory - one period a week. Introduction to harmony, melody writing, and an approach to two and three part writing.
- c) history - a study of the classical and romantic eras with the emphasis on styles and the socio-economic conditions of Western civilization at that time with a comparison of the two eras.

VOCAL - UMI 251 PRE-REQUISITE - UMI 151 or previous choral experience with some theory background.

The three sections of this course are as follows:

- a) performance - continuation of sight-reading studies, articulation and projection, ear-training.
- b) theory - as for UMI 251
- c) history - as for UMI 251 with emphasis on vocal music (development of the early opera).

VOCAL - UMI 351 PRE-REQUISITE - UMI 251 or a minimum of two years choral experience and Grade 2 Theory.

The three divisions of this course are as follows:

- a) performance - introduction to madrigals and small ensemble performance along with further ear training.
- b) theory - as for UMI 351
- c) history - as for UMI 351 with emphasis on vocal music in the concert halls (Opera Buffa and Grand Opera).

MUSIC COURSES Continued

VOCAL - UMV 451 PRE-REQUISITE - UMV 351

The three divisions of this course are as follows:

- a) performance - emphasis will be placed on developing solo singing and participation in small ensembles as well as senior chorus.
- b) theory - as for UMI 451
- c) history - as for UMI 451 with emphasis on the development of sacred as well as secular vocal music.

STRINGS - UMS 251 PRE-REQUISITE - UMS 151 or a minimum of one year playing experience on a stringed instrument.

The three divisions of this course are:

- a) performance - further development of technique on the instrument. i.e. vibrato, positions.
- b) theory - completion of rudimentary music theory to the end of conservatory Grade 2 level.
- c) history - a study of the Baroque era (1600-1750). An indepth study of the development of string literature of that era.

STRINGS - UMS 351 PRE-REQUISITE - UMS 251 or 2 years of playing experience on a stringed instrument.

The three divisions of this course are:

- a) performance - further refinement of technique, i.e. positions and vibrato. Study of more advanced repertoire (parts of symphonics).
- b) theory - same as UMI 351
- c) history - a study of the classical and romantic eras with emphasis placed on the development of the symphony and chamber music.

MUSIC COURSES Continued

MUSIC EDUCATION - UMS 551 PRE-REQUISITE - UMI 451 or UMW 451 or permission of Department.

This is a music education course aimed at presenting a total picture of musical development through the ages.

Some musical background is desirable. These are some of the topics that will be studied:

a) Conducting -

- learn the basic patterns of conducting.
- through discussion and practical application the student will learn the importance of a conductor.
- conducting of classes (Years 1 and 2).

b) Music Appreciation -

- the student will learn score reading and some interpretation with regards to style, tempo, dynamics and rhythm.

c) History -

- The first section of this part of the course will be devoted to a comparative study of all musical eras up to the present. Special attention will be given to the development of instrumental music and its accompanying harmony from the medieval to the contemporary periods. The second section of this course will be devoted to the study of the 20th Century (contemporary) music, starting with Schonberg to the composers of today.

d) Performance -

The student will have an opportunity to study two instruments with special attention given to the pedagogical approach of playing an instrument.

PHYSICAL EDUCATION
GIRLS AND BOYS

Physical educators are sometimes guilty of designing programs that cater to the needs of the average student. This type of program has two basic faults:

- a) it fails to challenge the gifted person, and
- b) it has unattainable goals for the below average student

The end result is that a large segment of the student body gain little from the Physical Education program.

The Physical Education Department at Port Credit strives to offer a program that will appeal to and benefit all students. A wide variety of activities is offered to appeal to individual interests. Emphasis is placed on the need for physical fitness and the learning of skills that will be valuable to the student in later life, such as golf and tennis.

Classes are sometimes grouped by ability for skill instruction and the level of instruction is geared to the skill level of the group. Equal ability groups allow a student the opportunity to compete with his peers and eliminate any embarrassment and frustrations that may result from competing with a superior athlete.

The Department attempts to make the Physical Education class an enjoyable experience by providing each student the opportunity of expressing himself physically.

NOTE: It is strongly recommended that every student complete three years of Physical Education while qualifying for the Secondary School Graduation Diploma.

For students desiring either intensive study in preparation for a career in physical education or an extra course for interest, one enriched course is offered in Year 4.

PHYSICAL EDUCATION - PEB 201 and PEG 201

This course introduces an elective programme with opportunity to participate in co-educational activities. The school year is divided into nine units of approximately 12 periods. The student selects the activity of his or her choice in each unit for in-depth study. The activities offered include those taken in PEB 101 and PEG 101 plus more leisure time activities (archery, square dance, winter outdoor activities, table tennis, initiative tasks).

Each student must complete 2 units of Health selected from the Peel Board of Education Health Core Programme. Health topics include, Community and Environmental Health, Personality Development and Mental Health.

PHYSICAL EDUCATION Continued

PHYSICAL EDUCATION - PEB 301 and PEG 301

This course is elective and co-educational. The emphasis is on leisure time, carry-over activities. Students select 9 activities for the year. Activities such as skiing, curling and bowling are not included in the units but will be offered seasonally on a sign-up basis. Each student must complete 2 units of Health selected from the Peel Board of Education Health Core Programme.

PHYSICAL EDUCATION - PEB 401 and PEG 401

This course is elective and co-educational. The emphasis is placed on recreational leisure time activities and fitness. The student selects activities of his or her choice for further in-depth study with more time for class competition and games. Outdoor education will be offered on a limited basis (in canoeing, skiing orienteering, skating). Each student must complete 2 units of Health selected from the Peel Board of Education Health Core Programme.

SPECIAL PHYSICAL EDUCATION - PEB 461 and PEG 461

PRE-REQUISITES - Years 1, 2 and 3 PEB or PEG with honours standing in P.H.E. 351 and a 66% academic average in Year 3 and approval of the Department. A student cannot be failing any subjects.

This is an advanced course offered to specially qualified students who indicate an intention of continuing in Physical Education or related careers beyond the secondary school level. Successful completion of this course will undoubtedly aid students in gaining admission to University Physical Education courses. This course is predominantly co-ed stressing individual activities, e.g. tennis, golf, squash, handball, swimming, sailing, paddling. Team sports and skills are included with an emphasis on teaching methods and coaching philosophy. All students will get practical teaching experience. The health course will include a study of the physiology of exercise, social problems, family living and genetics of the future. A canoe trip in the Fall to Algonquin Park and a Winter Ski Trip are part of the course. Sailing is included if the facility is available.

SCIENCE

It is hoped that Science courses will help to contribute to the individual development of students and to the development of their knowledge, skills and attitudes. Our courses and teaching methods should give students the opportunity to develop the skill of critical thinking. The courses should be relevant in that understandings are gained which are useful in the personal and public domain. They should allow the student to develop personal and recreational interests in this area. They should also allow development of understanding of the process of Science since Science is an important factor in our society.

Another of our aims is related to Science careers. In addition to aims already mentioned, students planning careers in Science or technology need a background of Science content. They need to know the important concepts, theories and definitions of their field. They need experimental and logical skills as well as understanding of the process by which Science progresses.

BIOLOGICAL SCIENCE - SBS 241

This is a basic biology course for those students planning to graduate at the end of year 4. With an emphasis on the practical aspects of biology, living things are studied from the view point of their cellular structure, basic organization and function, and the interaction of living things with their environment.

BIOLOGICAL SCIENCE - SBS 251

This course will present a study of the world of living things and the way that individual plants and animals interact with each other. The variety of life forms will be shown as well as the features which allow grouping of these life forms into various classifications. The study of the cell will lead to detailed coverage of the structure and function of organs and organ systems of both plants and animals. Finally man will be studied in perspective with the rest of nature. This course is the pre-requisite for Year 5 Biology (SBI 551).

BIOLOGY - SBS 301 PRE-REQUISITE - SPS 141 or SPS 151 or SBS 251

This course teaches the normal structure and function of the human body. A study of the cells of various tissues will include the chemical makeup of the body. An overview of the anatomy and physiology of living things will be considered with an intensive study of the major organ systems of the human body. **Emphasis** will be placed on the diseases and disorders affecting the human body.

SCIENCE COURSES Continued

PHYSICS - SPH 351 PRE-REQUISITE - SPS 151
MAT 251 is recommended.

This course is divided into four major sections: mechanics, vibrations and wave motions, electricity, and modern physics. Mechanics is an experimental and mathematical study of measurement, motion, work, energy and power. The study of vibrations and waves leads into sound, resonance and interference phenomena, followed by light and optics. Electricity includes electrostatics, a quantitative study of current electricity and electromagnetism. Modern Physics includes topics in atomic structure and nuclear physics. This course is the pre-requisite for Year 5 Physics (SPH 551).

PHYSICS - SPH 341 PRE-REQUISITE - SPS 141 or SPS 151

A basic Physics course for students planning to graduate at the end of Grade 12. The course will place less emphasis on the mathematical content of physics and more emphasis on the practical aspects. The five major topics in the course are: electricity, magnetism, sound, light and mechanics.

CHEMISTRY - SCH 441 PRE-REQUISITES - SPS 151 or SPS 141

A basic Chemistry course for students planning to graduate at the end of Grade 12. This course includes fundamental material in descriptive and theoretical chemistry. The emphasis of the course will be on detailed experimentation involving processes and devices used in technological fields. All topics mentioned in SCH 451 will be introduced but with less emphasis on mathematics and theory.

CHEMISTRY - SCH 451 PRE-REQUISITE - SPS 151 or the permission of the Department.
It is recommended that MAT 351 also be completed.

This first course in chemistry features experiments and their interpretation as well as important facts, laws, and theories. The course covers the basic concepts of atomic theory, the Periodic Table, formula, writing equations, chemical bonding, chemical arithmetic and the mole. In addition work will be done in the areas of acids and bases, electrolysis, organic chemistry and biochemistry. This course is the pre-requisite for Year 5 Chemistry courses (SCH 551).

BIOLOGY - SBS 551 PRE-REQUISITE - SBS 251 and SCH 451

This course studies biology using the homeostasis approach. Homeostasis, the delicate balance required to maintain life in the face of the fluctuating environment, is the unifying theme.

This theme progresses logically from the study of macromolecules to the cell through to the organism, and through the continuity of the species from one generation to the next to the evolutionary picture of life on this planet. An in-depth study of the primary chemical processes occurring in living organisms plus a comparative study of the systems of both plants and animals will be covered.

SCIENCES COURSES Continued

CHEMISTRY - SCH 551 PRE-REQUISITE - SCH 451 It is recommended that MAT 451 also be completed.

This course features the development of chemical principles in four major areas. In the first a detailed study of atomic theory leads to an understanding of the formation and shape of molecules. In the second part a study of reaction rates and the energetics of reactions lead to a study of entropy and the factors that control all chemical reactions. Reactions are then studied from the viewpoint of dynamic equilibrium. The concepts developed are applied to widely separated phenomena such as: solubility, acids, bases and electrochemistry. Finally organic chemistry is studied as a rapidly growing field where many of the principles acquired in the course may be applied. In many of the units principles are expressed in mathematical form and problem solving is of major importance.

PHYSICS - SPH 551 PRE-REQUISITES - SPH 351 and either MAT 451 or special permission of department.

The various areas of physics studied in this course converge upon a main theme; the wave-particle duality of radiation and matter. The course begins with a study of the behaviour of light in general. Through exploration of this behaviour, a particle model and a wave model for light are constructed and examined. An in depth investigation of Kinematics follows, probing the inter-relationships of time, space and motion. With this background Newtonian physics, or the dynamics of classical bodies, is studied intensively. Finally, after a brief introduction to electrical forces and electromagnetic radiation, a modern wave-mechanical description for photons, matter waves and atomic structure is created.

TECHNICAL STUDIES

In a recent school year book it is stated that "the school's purpose is to show the student his responsibility to himself and to society". Today we are living in a highly technological society which creates many demands for technical literacy and skills. To enable students at Port Credit to meet these demands for technical literacy and skills, we in our Department are offering many varied and interesting courses.

It is our desire to broaden the student's interests, curiosity and creativity by having students select courses suitable to their aptitudes and interests, as well as acquire skills adequate for both personal and, if desired, vocational goals.

Technical courses have been designed to provide integration among themselves and an inter-relationship with other academic studies such as Mathematics, Science, English and Art.

Most courses are offered at the non-phases level and all courses are co-educational, so that all students may participate.

Educationally, technical courses provide a sound basis for University, Community Colleges and also for those students seeking employment upon graduation from Secondary School.

Students interested in Technological programs may take two approaches. One is an exploratory approach taking credits in various subject areas each year. In the second approach students may take a more specialized direction wherein concentrated study and application in one or two subject areas are more suited to the individual's interest and abilities.

To enable students to take best advantage of these programs, it is suggested a student select subjects within a technological grouping which relate to one another. (i.e. Woodworking and Architectural Drafting, Metal working and Mechanical Drafting or Electricity and Electronics).

Year 1 and 2 subjects are primarily exploratory in nature. A student is urged to select from a variety of Technological areas, in order to determine which subject area(s) is best suited to his/her aptitudes, interests and needs.

AUTO MAINTENANCE

TECHNICAL STUDIES

PROGRAMME STRUCTURE - YEARS 2 to 5

YEAR TWO

TDR 201	Drafting 2
TAM 201	How Automobiles Operate
TBC 201	Building Construction 2
TEY 201	Electricity 2
TEL 201	Electronics 2
TMS 201	Machine Shop 2
TSW 201	Sheet metal & Welding

YEAR THREE

TDA 341	Architectural Drafting
TDA 301	Architectural Presentation
TAM 301	Auto Maintenance
TAM 341	How Does It Work (Auto)
TBC 301	Building Construction 3
TWW 301	Woodworking
TEY 301	Electricity 3
TEE 301	Electricity for Girls
TEL 301	Electronics 3
TEL 341	Electronics 3
TMS 301	Machine Shop 3
TDM 301	Mechanical Drafting 3
TFW 301	Metal Fabrication & Welding
TCM 301	Creative Metal Work

YEAR FOUR

TDA 441	Architectural Drafting B
TDA 401	Architectural Drawing Lab
TAM 441	Auto Repair
TAM 401	Finding the Trouble (Auto)
TBC 401	Heavy Construction
TFI 401	Furniture Design and Upholstery
TEY 401	Electricity 4
TEL 401	Electronics for Everyone
TEL 451	Senior Electronics
TMS 401	Machine Shop 4
TDM 401	Mechanical Design Drafting
TFW 401	Metal Fabrication
TCM 401	Creative Metal Work

TECHNICAL COURSES

AUTO MECHANICS

HOW AUTOMOBILES WORK - TAM 201

The second level automotive course is designed to give theoretical and practical knowledge to the student so that he or she may acquire basic understanding of the auto.

Topics include engine, power train, electrical and brake systems. Work of actual units accounts for the majority of shop time. This level also prepares the student for the third level of automotive study.

AUTO MAINTENANCE - TAM 301

This level of study is designed to give more knowledge to the interested student without going to a specialist's level. Basic knowledge gained in Level 11 is utilized and practical application of skills forms a major portion of the course. Major and minor tune up, electrical problems, performance tuning and the involvement of the automobile in society are covered at this level.

HOW DOES IT WORK? - SPECIALIST - TAM 341 PRE-REQUISITE - TAM 201 or TAM 301 or equivalent.

At this level of study, detail and precision are stressed. These are accomplished by a complete overhaul from start to finish. "The Engine must run". All systems of the engine are studied in detail during rebuilding. This level of study is set up for a student planning a technical career where skill and precision are an asset.

A student wishing to take a Double Auto Option, would take TAM 341 as the second course.

AUTO REPAIR - TAM 441 PRE-REQUISITE - TAM 301 or TAM 341

All systems of the engine are studied in detail. Major and minor tune-up electrical problems, performance tuning and the involvement of the automobile in society are covered at this level. The majority of the time is spent repairing units that would be used in service.

FINDING THE TROUBLE - TAM 401 PRE-REQUISITE - TAM 351 or TAM 301

Level four stresses diagnosis and repair using electronic test equipment and procedures practiced in automotive repair. All phases of engine, electrical, power train, brake and suspension problems are discussed including all power equipment and automatic transmission. Automotive service department operation, parts department and automotive technician duties are discussed along with specialist and career opportunities. Department of Labour apprenticeship abatement is also given to a graduate student. A student wishing to take a Double Auto Option, would take TAM 441 as the second course.

ARCHITECTURAL DRAFTING

ARCHITECTURAL DRAFTING A - TDA 341 PRE-REQUISITE: One Drafting Course

This course in the preparation of residential working-drawings and specifications (those documents from which housing is actually built) introduces architectural and civil engineering drafting technical communication. It includes studies in materials and methods of small-building construction (ancient and modern), residential building codes, and structural elements. (This course may be taken in the same year as TDA 301).

ARCHITECTURAL PRESENTATION - TDA 301 PRE-REQUISITE - One Drafting Course

This course in the preparation of architectural presentation plans, perspectives and models (those design studies from which working-drawings are made) introduces design and presentation techniques (in student-chosen projects), emphasizing the prescription and description of spaces for human use. It includes studies in the elements of residential planning and design, from interior spaces to exterior spaces. (This course may be taken in the same year as TDA 341).

ARCHITECTURAL DRAFTING B - TDA 441 PRE-REQUISITE - TDA 301 TDA 351 (1977-78)

This second course in the preparation of working-drawings and specifications begins with small commercial, industrial and institutional buildings and concludes with larger projects (all student chosen), emphasizing team or group work (as in actual practice). It includes further studies in building materials science, methods of construction, and structural design, with additional work on details for sub-assemblies, built-ins, and electrical and mechanical equipment. (This course may be taken in the same year as TDA 401).

ARCHITECTURAL DRAWING LAB - TDA 401 PRE-REQUISITE - One TDA Course

This all-practical senior course in architectural presentation and/or drafting is for those students who will require a portfolio for employment or for admission to post-secondary architectural courses. Individual portfolio programmes will be selected, so that students may choose to concurrently audit TDA 341 or 301 or 441 (enrollment and timetabling allowing). Success in this course requires an increasing ability to carry long-term projects to completion. (This course may be taken in the same year as TDA 441).

BUILDING CONSTRUCTION & WOODWORKING

BUILDING CONSTRUCTION 2 - TBC 201

This course is a continuation of the Woodworking principles acquired in Year 1 as well as an introduction to house framing. Students will build a scale model house working from actual blueprints. The topics covered will encompass all aspects of building construction including such topics as footings and foundations, wall, floor, and roof framing and finishing carpentry. In building the scale model house the student will encounter many of the actual problems that a carpenter encounters in home construction. In addition to the scale model house the student will be able to work on a smaller project of his own.

BUILDING CONSTRUCTION 3 - TBC 301

This third year course in Building Construction will build upon the construction principles acquired in Year 11 and will place special emphasis on such areas as roofing, prefabrication and the large area of **non-wood building materials available** today. The students will gain blueprint reading experience and practical construction experience from building a small structure in the shop. As many of the components as possible that will go into the structure will be built by the students in the shop. (e.g. windows, doors, and siding).

WOODWORKING - TWV 301

This course is general in nature and provides an introduction to cabinet making and millwork. Topics include project design, wood technology, finishing, stains, varnishes and paints, cabinet hardware, hand tools and operations, and the use of woodworking machinery. Individual projects of the student's choice provide the student freedom for self-expression, experimentation and creativity.

BUILDING CONSTRUCTION - TBC 401

The theoretical emphasis is on heavy construction. A detailed study of industrial and commercial building methods and materials such as concrete, steel and masonry is carried out at this stage, site layout, use of transit, excavating procedures for construction, concrete analysis - pouring methods, curing, principles of pre-stressing are studied in detail. The technology and construction of curtain-wall buildings such as the Toronto-Dominion Centre, Toronto City Hall and Commerce Court are also covered in detail. Reading and interpretation of architectural drawings are a vital part of the course, giving students a broad basic knowledge of building procedures and practices. School projects, cottages, tool sheds, etc., are a supplement to the practical portion of the course.

BUILDING CONSTRUCTION & WOODWORKING Continued

FURNITURE DESIGN AND UPHOLSTERY - TFI 401

This senior level Woodworking Course will look at the various furniture styles and will give the students an opportunity to design and construct a substantial item of furniture. Both the practical and theoretical skills that are required to construct a well-built piece of furniture will be developed in class. The course will also consist of an introduction to Upholstery.

ELECTRICITY

ELECTRICITY 2 - TEY 201

Beginning with a basic study of circuits - series and parallel concepts of current, voltage and resistance, magnetism and electromagnetism. Practical work in constructing splices and joints, and projects related to non-metallic sheathed cable (N.M.S.C.). A detailed theoretical study of various protection devices in a circuit, electrical power and energy. The course concludes with a physical examination of electronic components and their applications and an introduction to vacuum tubes and transistors.

ELECTRICITY 3 - TEY 301

Residential wiring including the installation and theory of residential services, Non-Metallic Sheathed Cable, armoured cables, heating circuits, stove and dryer wiring. The construction and operation of A.C. and D.C. motor and generator control. Incandescent and fluorescent lighting.

ELECTRICITY FOR GIRLS - TEE 301

This course covers the aspects of house and apartment circuits. The purpose of the course is to enable girls to diagnose electrical problems of home or apartment and then to remedy them. The course will cover basic electrical circuits, soldering techniques, fixtures, switch and plug replacement, installation of dimmers, extra plugs and fixtures. Safety devices such as fuses and circuit breakers will be studied for construction, operation, installation and replacement.

ELECTRICITY 4 - TEY 401 PRE-REQUISITE - TEY 301

The study of different types of single and three phase motors. Motor winding and testing, across-the-line and reduced voltage motor controls, transformer construction, operation and testing. The installation of residential services and the study of hydro-regulations pertaining to them. Industrial wiring and residential wiring. Instruments - their construction and operation.

ELECTRONICS:

ELECTRICITY Continued

ELECTRONICS 2 - TEL 201

This full credit course provides experiences with circuits employing transistors and other semiconductor devices. Lab experiments and practical projects, some of which the student may wish to take home, provide the wheels for learning about electronics.

ELECTRONICS 3 - TEL 301

This full credit course is for the student who is keen about electronics. As an example, an interest in audio recording may progress from taping through quality taping to integrated circuit devices. A significant portion of this course deals with audio-reproduction, digital instruments, oscilloscopes and solid state devices.

ELECTRONICS 3 - TEL 341

This full credit course reviews fundamental electronic principles in a thorough way. It is mostly project oriented. Transistor radio and amplifier servicing is learned by doing, with modern test equipment. Opto-electronics, silicon-controlled rectifiers and other solid state devices are introduced including light organs and tachometers for cars.

ELECTRONICS FOR EVERYONE - TEL 401

This full credit course is designed for senior students who have not participated in electronics at the junior level. Basic measurement, circuit design and analysis as they apply to the areas of electronics in which the student is interested, such as sound systems, automotive electronics, and measurement, are the course focus. Students are encouraged to build their own major project.

SENIOR ELECTRONICS - TEL 441 PRE-REQUISITE - TEL 301 or approval of the Technical Director.

The design of this course recognizes the fact that not all learning takes place within a school. This course will accept students with various backgrounds of knowledge and experience in electronics. We now have the capability to explore and to experiment with the current and modern state of the electronic art and science. Linear operational amplifiers, tone encoders and decoders.

MACHINE SHOP

MACHINE SHOP 2 - TMS 201

Grade 10 Machine Shop reviews some of the work covered in Grade 9, then progresses to more advanced work on the Lathe, Milling Machine, Surface Grinders, and Shapers. A variety of student projects are available in order that both the practical and theoretical skills are presented to the students. Micrometers, Vernier Calipers, Dial Indicators will be used in the area of measurement. Class assignments such as cutting right and left hand threads on the Lathe will feature in this course.

MACHINE SHOP 3 - TMS 301

Grade 11 machine shop builds on the fundamentals learned in previous years, and now includes such work as cutting acme, right and left, and multiple lead threading. Calculation and milling of spur gears, splines on the Milling Machine provide opportunities to put theory into practise. Individual projects are welcomed, while class assignments ensure that students become proficient on all machines. In the area of measurement students will become familiar with inside and outside, depth micrometers, vernier calipers, guage blocks, and telescopic guages. This course encompasses much of the Ontario Dept. of Education's Elements of Mechanical Technology and will appeal to any student with a mechanical sense of mind.

MACHINE SHOP 4 - TMS 401

Grade 12 Machine Shop completes the second part of the Dept. of Education's Mechanical Technology course. It will cover such topics as internal threading and eccentrics on the Lathe. The milling of helical gears, cams, and keyseats will take the students beyond the levels previously covered. The measurement testing and inspection of machine parts will encompass all micrometers, guages, etc. together with the hardness tester. Individual projects are welcomed while class assignments provide a standard to the group.

MECHANICAL DRAFTING

MECHANICAL DRAFTING - TDR 201

The course is designed to appeal to all students male and female, with an interest in technical drawing. The use of mechanical drawing instruments throughout the course will assist the student in acquiring good lettering techniques and drawing skills. Artistic ability is not necessary for this course. Students will have the opportunity of applying drafting knowledge to individual self-developed designs and inventions. Topics include basic drafting (a review of Grade 9 drawing), castings and forgings, pictorial drawing style, and an introduction to architectural drawing.

MECHANICAL DRAFTING Continued

MECHANICAL DRAFTING 3 - TDM 301

This course explores various types of assembly and detail working drawings. Included are such topics as sections, threaded fasteners, spur gears, splines, forming processes, auxiliary views and pictorial drawings. Practical projects are intended to create an outlet for the student's interests and to provide an opportunity to develop skills in design. Industrial tours are taken to observe the latest design and manufacturing techniques.

MECHANICAL DESIGN DRAFTING - TDM 401 PRE-REQUISITE - One previous drafting course.

This course covers such topics as welded design, bevel gears, worm gears, cams, jigs, fixtures, bearings and strength of materials. Time is spent on design projects that will incorporate many of the components studied in class and will provide an outlet for the creative abilities and interests of the students. Industrial tours are taken to introduce students to actual design and manufacture of large mechanical components.

SHEET METAL AND WELDING

SHEET METAL AND WELDING 2 - TSW 201

This course is required by students who contemplate a study in depth of the metal fabrication and production industry. The problems and skills involved in this industry are emphasized throughout the course. Building on a solid foundation of layout and pattern drafting, the student develops skills in bending, forming, seaming and welding. Welding is a continuation of Year 1 welding including oxy-acetylene cutting silver soldering and resistance welding.

METAL FABRICATION AND WELDING - TFW 301

This course provides a broad background to allow students to choose from several technological vocations in industry or to provide fabrication skills for the student taking other technical science and art courses. The student will choose a major project to be made in metal during the year that will bring together a variety of metal forming and welding techniques. In addition instruction in hot and cold bending and forming, using hand and machine tools, plus arc, gas and inert gas welding, the student will be allowed to pursue a skill or technique of his own choosing, such as metal sculpture, or hand worked copper or brass household items.

SHEET METAL AND WELDING Continued

METAL FABRICATION AND WELDING - TFW 401

This course is an in-depth study of the previous level with greater emphasis placed on precision in project layout and metal forming. Both arc and gas welding will be studied at an advanced level with emphasis placed on the quality of work. Spot welding and inert gas are also covered. Elementary metallurgy and the methods of welding different metals such as cast iron and aluminium are studied. Students will select and fabricate their own projects which include metal layout, forming and welding as well as repairing school items that come into the shop.

CREATIVE METALWORK - TCM 301

This metalwork course is directed to those students who have little or no previous experience in the design and fabrication of metal in art work. It teaches the basic techniques of designing, layouts, forming and joining metals by soldering, brazing, and welding into the student's own artistic projects. The course will provide a sound base for students to explore and create individual two and three dimensional sculptures, murals, wall plaques, copper enamelling, and other items for the home. Emphasis is placed on the students creativity, imagination and desire to fabricate these ideas in metals.

CREATIVE METALWORK - TCM 401

This course is designed for those students who have some experience working in metals, and wish to experiment further in this medium. The students will fashion and fabricate more intricate sculptures in wire and sheet, forgings, copper enamelling, murals, mobiles, plate and abstract sculptures expressing his/her own artistic ability. Stress is laid on the students creativity, initiative and commitment.

