

ROTHESAY HIGH SCHOOL

**Course Calendar
2011 - 2012**

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Advanced Placement Courses / Advanced Placement Program

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Notes

The Course Calendar is used by Grade 11 and 12 students at Rothesay High School in choosing their courses for the upcoming school year. Students in Grades 9 and 10 are enrolled in a common compulsory non-credit system. Rothesay High School will be following a 5 credit semester, allowing students the opportunity for a greater variety of courses and the opportunity to study a subject in greater depth.

THE CREDIT SYSTEM

A central component of the semestered high school program is the credit system which applies to all grade 11 and 12 course offerings. The term credit describes a successfully completed course in terms of instructional hours. One credit corresponds to approximately 90 instructional hours.

COURSE CODES

The first two digits indicate the grade during which this course is usually taken. This applies primarily to the core courses in English, Mathematics, French, and Social Sciences. The third digit indicates the level: 1 - enriched university preparatory; 2-regular university and community college technology preparatory; 3 - prepares a student for some one-year courses at community college, business college or to go directly to work; 0 - only available at one level. The "O" courses vary in level of difficulty. Some "0" courses qualify as university entrance courses; others do not. Students are advised to consult with the guidance counsellor regarding specific courses. Students must also be aware that high school graduation does not necessarily mean acceptance to post-secondary institutions.

ELECTIVE COURSES

The elective course selection is designed to allow students flexibility in completing their requirements for graduation. Electives may be chosen from a broad range of subjects, or students may choose to concentrate in one specialized area of the curriculum such as science or technology.

Elective course selection will often depend on counselling from parents, teachers, guidance personnel, and administrators. Students who plan careers in engineering, for example, must have the appropriate courses in their graduation transcripts which will allow them access to universities of their choice. A key consideration is to have students open as many education doors as possible. Students' programs, therefore, should be flexible and adaptable.

INDEPENDENT STUDY

Independent study credits are intended to: provide increased opportunity for individualization of programming, recognize and provide credit to students who initiate and assist in the development of courses tailored to their needs abilities and interests and provide opportunities for greater flexibility in the high school program.

Independent study may include: a prescribed course in the province of New Brunswick; a topic or theme that extends the curriculum of a prescribed course; a topic or theme chosen by the students including work that combines a number of disciplines. A student may earn one independent study credit in 12 only. The independent study credit counts towards graduation requirements including compulsory course requirements. Independent study credits must be approved by the supervising teacher, the guidance counsellor and the principal.

Deadline for application: Semester 1 - June 1st
Semester 2 - December 1st

New Brunswick High School Diploma Requirements

In addition to the above, and in order to receive a New Brunswick High School Diploma, students must:

- Pass English Language Proficiency Assessment
- Pass courses at the 0, 1, 2 or 3 levels with a maximum of two modified* courses.

*The term modified will apply to a credit where the content and concepts of a course have been significantly simplified to allow for student success.

ADVANCED PLACEMENT COURSES/ ADVANCED PLACEMENT PROGRAM

The Advanced Placement (AP) Program is a cooperative educational endeavor between Secondary Schools, Colleges and Universities. It exposes high school students to college-level material through involvement in an AP course, and it gives them the opportunity to show that they have mastered the material by taking an AP examination. Colleges and Universities can then grant credit, placement, or both, to students who have done so.

Students can benefit from taking AP courses by learning a subject in greater depth, developing skills that will be critically important to successful study in university, and demonstrating to universities their willingness to undertake a challenging course. AP courses do make substantial academic demands on students.

AP has been accepted by many schools as a method of enrichment and it has grown steadily. The number of examinations written by Canadian students in 1991 was 3958. The number of examinations written in 1995 was 6706. Over 800,000 AP examinations were written world wide in 1995.

AP offers high schools the opportunity to motivate their best students, enhance the quality of the curriculum and demonstrate to the community the school's commitment to strong academic standards.

AP can motivate students to attempt more challenging courses in high school and university. It can bolster their confidence that they meet college requirements. Successful completion of the AP examination taken in high school can provide college credits and exempt students from some introductory college courses, thus permitting students to move more quickly into advanced classes.

Research on the effects of AP courses and examinations has demonstrated that, when AP students reach university, they typically take additional courses and examinations in the academic areas of their AP courses, enroll in more courses than their peers, achieve higher grade point averages and graduate with double majors, and go on to graduate school at a rate double that of their non-AP peers.

The Four Year High School Program 20 Credit System

Grade 11 - 12

- Credits for graduation begin to accumulate
- Five periods (65 minutes) per day with 5 credit semester

Schools with 5 credit semester

- In Grade 11, English will be a year long course (2 credits, 180 hours)
- 90 hours per course
- a total of 17 credits required for graduation

The Four Year High School

English Program

Grade 9 English		Grade 10 English		Grade 11 English		Grade 12 English	
Term 1	Term 2	Term 1	Term 2	Term 1	Term 2	Term 1	Term 2
English	English	English*	English*	English (90)	English (90)	English (90)	Elective (90)
Math	Math	Math	Math	Math (90)	Math (90)	Elective (90)	Elective (90)
Soc. Study	Soc.Study	Soc.Study	Science	Sc/Te (90)	FA/LR (90)	Elective (90)	Elective (90)
Science	French	French	Elective	History (90)	Elective (90)	Elective (90)	Elective (90)
Spec/Spec	Spec/Spec	Spec/Spec	Spec/Spec	Elective (90)	Elective(90)	Elective (90)	Elective (90)

French Immersion Program

Grade 9 Immersion		Grade 10 Immersion		NOTE: For Grade 11 and 12 French Immersion Students:
Term 1	Term 2	Term 1	Term 2	
English	English	English*	English*	In order to complete the French Immersion Program, students must take a minimum of three (3) French Immersion courses as part of their Grade 11 and 12 program.
Math	Math	Math	Math	
FI Lang Arts*	FI Lang Arts*	FI Lang Arts	FI Lang Arts	
Soc Studies	Science	Science	Soc Studies	
Spec/Spec	Spec/Spec	Spec/Spec	Spec/Spec	

Personal Development:

Visual Art 110/120
 Music 112/122
 Theatre Arts 120
 Graphic Art and Design 110
 Outdoor Pursuits 110

Family Living 120
 Co-operative Education 120
 Health and Physical Education 120
 Entrepreneurship 110

CALENDAR SYMBOLS

ART

MUSIC

BUSINESS

SCIENCE

ENGLISH

SOCIAL SCIENCES

FRENCH

TECHNOLOGY

HEALTH/PHYSICAL
EDUCATION

STUDENT SERVICES

HOME ECONOMICS
FAMILY LIVING

LIBRARY

MATHEMATICS

CLUBS & SPORTS

ART DEPARTMENT

The Art courses are designed to provide students with opportunities to develop:

- their visual awareness,
- their skills in art processes and techniques,
- their understanding of a number of art movements and theories,
- their potential to respond critically to visual and aesthetic phenomena, and
- an understanding of their art heritage

VISUAL ART 110

Prerequisite Art 9/10 Program

Visual Art 110 builds on the experience and knowledge gained in the 9/10 program. The studio work remains in the areas of drawing, painting, printmaking and 3-dimensional work and stresses personal expression and the development of individual imagery. There are further requirements in art criticism and art history.

GRAPHIC ART AND DESIGN 110

This course has as a main goal the development of visual communication skills that are related, not so much to personal expression, as in the case in our Visual Arts courses, but more to meeting the needs of organizations that wish to promote themselves through advertising, logos and other visual symbols. There is an increasing market for those students who are visually literate and there are a number of post-secondary institutions for which this course would be a valuable prerequisite.

VISUAL ART 120

Prerequisite Art 110

Visual Art 120 is designed for students who wish to pursue art related interests or careers. Students work through an introductory review of skills and concepts and choose blocks that lead to advanced work on a particular medium. Students are required to critique, in writing, aspects of process and product. An opportunity to develop a portfolio for submission to an art college is also available.

ART AP - ADVANCED PLACEMENT

This course is a 180-hour course for students interested in attending post secondary institutions majoring in visual arts. Assessment is by portfolio submitted to The College Board. The preferred route is for students to take Grade 11 and Grade 12 Visual Arts in their Grade 11 year. Then in Grade 12 they continue to develop their portfolio in an independent study format.

BUSINESS EDUCATION

ENTREPRENEURSHIP 110

Entrepreneurship 110 is designed to help the student learn about the skills, abilities, and personal characteristics that are needed to become a successful entrepreneur, as well as develop their individual aptitudes, attitudes and interests. The student will practice the techniques involved in accurately assessing opportunities, generating ideas, selecting and evaluating ideas, and preparing carefully drawn up plans for putting these into action. Entrepreneurship 110 emphasizes the development of concepts rather than specific business skills. The course makes extensive use of case studies, and where possible, business simulations.

INTRODUCTION TO ACCOUNTING 120

NOTE: This course is designed for students in their final year who are planning to attend university or community college.

The course includes the development and use of journals, ledgers and related books of accounts as well as a computer accounting package. Basic accounting principles and concepts are discussed at some length to help students understand the conceptual framework of accounting. The preparation and use of the financial statements of proprietorships, partnerships and corporations are studied in some detail. This course is accepted as a university entrance (elective) credit for all programs at the University of New Brunswick.

CO-OPERATIVE EDUCATION 120

NOTE: In order to enroll in Co-operative Education, students entering Grade 12 must submit an application with references and are screened by an interviewing committee. Successful applicants will be those students who have achieved academically in subject areas relating to the specific field of business or industry they wish to explore. There is a limited enrollment in the course.

Co-operative Education is a two-credit course. Students will attend regular classes for a half day and report to their respective training stations for the other half. In addition to related theory classes, students will participate in two six week work placements in the community. The purpose of this program is to provide student with exploratory experiences in a variety of work roles while also fostering personal responsibility, self-reliance, and team work.

BUSINESS ORGANIZATION AND MANAGEMENT 120

This course is designed for university preparatory students in their last year of high school. Students should gain an understanding of how the business system is managed in Canada, emphasis being placed on business problems as seen through the eyes of management. Projects, case studies and problem solving are a major part of the course. The major topics included are: business ownership, small business management; the functions and problems of management; financial management and control; production; marketing procedures; business, government and society; and future careers in business.

Text: Canadian Business

DISTANCE LEARNING

New Brunswick's Distance Learning program offers expanded learning opportunities to all New Brunswick students. Distance Learning allows all students access to optional or advanced level courses and it provides increased flexibility in scheduling in all schools. Students taking Distance Learning courses are also able to continue their studies without interruption when they are unable to be in school because of illness or travel. New Brunswick's Distance Learning program emphasizes a facilitated learning approach. All courses are led by distance facilitators/teachers who answer questions and engage student learning by e-mail, chat room or web cam. The current slate of courses is constantly being improved and updated and new courses are also in development to expand the Distance Learning offering.

ENGLISH DEPARTMENT

Students who plan to go on to university or to certain community college programs must select courses ending in either 1 or 2. Students who think they will be going to community college should seek advice from the guidance counsellor as to which level of English they should take.

Writing 110, Media Studies 120, Theatre Arts 120 and Journalism 120 are elective courses which may be taken in addition to the required courses.

WRITING 110

Writing 110 is intended for students who are serious about strengthening their basic reading and writing skills in order to have success in the college preparatory English program. The course will cover units on the sentence, the paragraph, the essay, syntax, spelling, and punctuation. Students will be expected to write on a daily basis.

ENGLISH 111

English 111 is an enriched English course. It follows a pattern similar to that of English 112, the regular college preparatory course, described below. However, students taking the course will have a greater opportunity to work independently and to assume responsibility for directing their studies. The course will move at a faster pace and engage students in a variety of activities that will be stimulating and suited to their interest and ability.

Thirty percent of the final grade in this course will be determined by student performance on the Provincial Achievement Examination which is an external exam administered by the province.

ENGLISH 112

English 112 is the regular college preparatory course. It is made up of two components, literature and writing. In the literature unit, the students will study poetry and a Shakespearean play. The writing section will concentrate on sentence and paragraph writing skills, development of essay writing skills and strategies, the précis, the paraphrase, and the business letter.

Thirty percent of the final grade in this course will be determined by student performance on the Provincial Achievement Examination which is an external exam administered by the province.

ENGLISH 113

English 113 is intended for students who are planning to enter the work force after graduation or to take certain courses at community college. An emphasis is placed on the development of basic reading, writing, and speaking skills. The course contains two main components, literature and writing. In the literature unit, the students will study the short story, the novel, poetry, drama and media. The writing unit will have continued emphasis on developing good sentence and paragraph writing skills, the long composition or report, writing summaries, spelling, punctuation, and syntax.

Thirty percent of the final grade in the course will be determined by student performance on the Provincial Achievement Examination which is an external exam administered by the province.

ENGLISH 121

Prerequisite: Successful completion of English 111

English 121 is an enriched English course but it is similar to the regular college preparatory course described below. In addition, however, students are expected to cover a wider supplementary reading and writing program.

ENGLISH 122

Prerequisite: successful completion of English 112

English 122 is the regular college preparatory course. Although there is continued emphasis placed on good writing skills, particularly those related to essay writing, the English 122 course is basically a literature course. The course is made up of three units: the novel, a study of the poetry from the Eighteenth Century and Restoration period, the Romantic period, or the Victorian period and the Shakespearean play.

ENGLISH 123

Prerequisite: successful completion of English 112 or 113

English 123 is intended for those students who plan to enter the work force after graduation or take certain courses at community college. English 123 has two main components: literature and writing. The literature section will concentrate on the short story, the novel, poetry, drama - a modern play and a Shakespearean play, and media. The writing unit will have continued emphasis on sentence and paragraph writing skills, essay writing skills, spelling, punctuation and syntax.

MEDIA STUDIES

Prerequisite: This course is open to Grade 12 students only.

This is a hands-on course in the media. It will deal with film, television, advertising and video. The course will cover the characteristics and techniques of each medium and will involve extensive practical work in such areas as the making of videos and commercials. Although it is a hands-on course, students are expected to do a substantial amount of reading and writing dealing with the theory related to the various media.

FILM & VIDEO PRODUCTION 120

This course is a hands-on program where students study the art of film making and are responsible for creating quality films. The course will involve working as production teams.

CANADIAN LITERATURE 120

Prerequisite: successful completion of English 111 or 112

Canadian Literature 120 involves a study of Canadian plays, poetry, short stories and novels. An emphasis is placed on how the literature of the nineteenth and twentieth centuries reflects the Canadian identity and how it is unique in world literature.

THEATRE ARTS 120

Prerequisite: Students taking this course must be either in Grade 11 or 12. It is expected that students applying for this course have an interest in theatre.

Theatre Arts 120 covers a study of the history of theatre, set design, lighting, costume, improvisation, and acting. Time is divided between the classroom and the stage, and students are required to stage an individual performance.

JOURNALISM 120

Prerequisite: Students taking this course must have passed either English 111 or 112 with a mark of 70% or better.

Journalism 120 is a course intended for those students who have an interest in writing and, in particular, journalism. This course introduces students to basic news writing, news skills and concepts, including how news is covered and reported, what makes news, what constitutes good news writing, and how to write summary leads. Students will also learn how to distinguish between quotation and attribution and how to organize a news story, as well as interviewing techniques, writing basic stories, beat reporting, and feature writing. Instructions will also be given in the use of word processing and desktop publishing programs.

ADVANCED PLACEMENT ENGLISH 12

The AP English Literature and Composition course is designed to build on students' analytical skills in literature. Students will be exploring recognized works of literary merit. Advanced Placement (AP) English Literature and Composition is designed to be an academically rigorous and challenging course which emulates college material, emphasizing writing concisely, thinking clearly and reading critically. Writing, thinking and reading skills are expected to be fostered largely *independent* of others. This course is the equivalent of an introductory English course taught at the university level. Students may be required to do readings before the semester starts. Students who choose to write the AP exam may qualify for advanced standing or credit at university. Check with individual institutions for the AP policies.

FRENCH DEPARTMENT

Because of the variety of levels of French courses available in the graduation years, the following guide is provided to assist students and parents in the selection of appropriate courses in the French programs.

In order to graduate, a student must take French in Grades 9 and 10.

The various French courses offered at Rothesay High School are listed according to their decreasing level of advancement in the French language.

Early Immersion
Late Immersion
French 111
French 112
French 113
French 121
French 122

Students in the Immersion Programs are expected to continue their program at the senior high level by taking three courses in French over two years in Grades 11 and 12.

The following are recommended course selection outlines for Immersion students:

Grade 11: French Immersion Language Arts 110 and French Immersion Modern History 110

Grade 12: French Immersion Language Arts 120

F.I. LANGUAGE ARTS 110

Prerequisite: successful completion of F.I. Language Arts in the 9/10 Program

This course is a continuation of and follows the same general pattern as the Grade 10 course. The content of this course is based on five components: oral expression, literature, grammar, composition, and culture. This course is to be taken in conjunction with F.I. Modern History 110.

FRENCH 111 (Core)

The emphasis of the course is aural work. More work and units are covered than in French 112. An even greater participation and effort are required.

FRENCH 112 (Core)

Prerequisite: successful completion of French in the 9/10 Program

The course is a continuation of and follows the general pattern of the French course in the 9/10 Program.

FRENCH 113 (Core)

Prerequisite: successful completion of French in the 9/10 Program.

This course is designed to further the acquisition of oral communication skills for students who have experienced difficulty in French, or who have a limited or no background in French as a second language. The course covers the language skills necessary for basic communication in French in daily situations.

F.I. LANGUAGE ARTS 120

Prerequisite: successful completion of F.I. Language Arts 110

This course is a continuation of the grade 11 course and emphasizes vocabulary building, writing and oral expression, literature, grammar and culture. All these aspects are examined in context using various resources, visual and audio, variety of contemporary written material, articles and novels from francophone countries. Emphasis is placed on oral proficiency and understanding, therefore group work and communicative activities and projects are of great importance. Students must take a grade 12 French course in order to do the French proficiency exam administered by the Province of New Brunswick.

FRENCH 121 (Core)

Prerequisite: successful completion of French 111

Students must take a Grade 12 French course in order to take the Province of New Brunswick French proficiency exam. This is the third year of the regular academic program. Emphasis is placed on oral and aural aspects of the language.

In this course, there is a strong emphasis on oral and aural work. The class will go beyond the level of work normally covered in French 122 and the demands of the course will be correspondingly severe.

FRENCH 122

Prerequisite: successful completion of French 111 or 112.

Students must take a Grade 12 French course in order to take the Government French Proficiency exam. This is the third year of the regular academic program. Emphasis is placed on oral and aural aspects of the language.

HEALTH AND PHYSICAL EDUCATION

HEALTH/PHYSICAL EDUCATION 120 LEADERSHIP

This course is a "selected-elective" course for grade 12 students with special interest in utilizing physical activities to develop leadership skills which will enable them to translate these interests into dynamic personal involvement in their community. Students are required to apply for admission to the course, and applications are screened by a committee representing the physical education staff, the guidance staff and school administration.

This course requires a commitment to a minimum of 30 hours of out-of-class responsibilities in the area of leadership, which may focus on sport or recreational activities or other forms of community services.

This course consists of units in leadership theory, sports administration, teaching theory, officiating, coaching, and sports medicine.

HEALTH & PHYSICAL EDUCATION 110

This course demands dedication and commitment on behalf of the students. Topics covered include fitness training, exercise energetics/physiology, biomechanics, anatomy, sports medicine, general health topics, nutrition, sports psychology, traditional sports, first aid certification (optional), and peer teaching units. Practical units include fitness training (resistance tubing, core training, and weights), 5 – 6 km run, Lacrosse, Pilates, Aerobics, sport specific training, orienteering, peer teacher.

FITNESS 120

This course is meant to be both a continuation of the 110 Physical Education course and as a preparatory course for those going into kinesiology and/or other health sciences at the university level. Theory topics include fitness training, exercise energetics/physiology, biomechanics, anatomy, prevention and care of athletics injuries, and other kinesiological concepts. Practical units include fitness training (resistance tubing and weights) and GoodLife sessions, fitness stations in the gym, jogging in the community.

WELLNESS THROUGH PHYSICAL EDUCATION 110

The goal of the *Wellness Through Physical Education 110* curriculum is to promote healthy active living for life. Students will experience a variety of wellness activities and are expected to create and implement a personal healthy active living plan. The course is intended to allow a broad-based exploration of various dimensions of wellness and encourage a healthy, balanced lifestyle.

HOCKEY SKILL FITNESS 110

Students will improve their hockey and skating skills by spending 4 days a week in the ice. They will also learn theory one day a week in the classroom. This is designed for all levels of hockey skills and is meant to improve the level no matter where it is.

HOME ECONOMICS/FAMILY LIVING

The Home Economics/Family Living concentration of courses provides training for students:

- who seek a basis for future studies in fields of social work, teaching, psychology, foods and nutrition, fashion design and many related fields, or
- who wish to seek employment in the hospitality industry, day care, and clothing services

CULINARY TECHNOLOGY 110

The Culinary Technology Program is designed to prepare students for employment and/or future education in the food service industry. This technology-driven and skill-oriented program involves not only the "how and who" of food service preparation, but focuses on the development of personal skills and knowledge that can be applied to the food service industry. Laboratory experimentation, food preparation and service are an integral part of the program.

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It gives the students life long learning skills that may be transferable to future training and/or food services employment at an advanced level.

FAMILY LIVING 120

This course is designed for the senior student who wants a practical day-to-day living course. The main theme is the study of human behavior and how the individual grows and matures with family and friends. Through an investigation of effective communication related to the quality of life, the course proposes to develop decision making skills in many and varied areas such as: personality development (views of Freud, Maslow, Piaget, Erickson, Kohlberg); interpersonal relationships - dating, courtship, marriage, separation, divorce; sex education - anatomy of the human reproductive system, contraception, pregnancy, genetics, child birth, abortion, and social diseases. There is particular emphasis given to those stages which include children, such as parenting and human development experiences; i.e. physical, intellectual and psycho-social development. This Family Living course is an excellent introduction to further sociology, psychology, and medical studies as well as teaching, social work, and business.

HOSPITALITY AND TOURISM 110

The Hospitality/Tourism industry is identified in Canada and particularly in New Brunswick, as a rapidly growing industry. This course will provide students with lifelong learning skills that are transferable to future learning and/or the hospitality and tourism industry. The student will acquire career information, skill development and the talents for employment. This course relies on resource-based learning, practical experiences, access to resource people and information that will help the individual in his/her career choice. Topics include the four main sectors of the tourism industry, influences on the tourism industry, personal and interpersonal skills regarding career opportunities available, travel industry and marketing strategies.

This course will include a component of 10 hours service in the field of hospitality and tourism (i.e. dinner auction/dinner theatre, community events, etc.).

HOUSING AND INTERIOR DESIGN 120

Housing and Interior Design 120 is designed to show the relationship between different types of housing and the housing needs of individuals, families and communities. The influences of cultural, psychological and aesthetic aspects of housing are examined. The value of creativity and individuality in a living environment is an important element of the course. Course topics span factors including housing in various cultures, historical and modern trends in housing and lifestyles needs, financial and legal costs and requirements, basic floor plans and arrangements, plus the principles and elements of design. This course would be of interest to students interested in the field of architectural design, drafting or Home Economics.

CHILD STUDIES 120

This course is "a study of the most significant resource that we possess - children." Child Studies 120 explores how children develop physically, socially, emotionally, and intellectually. Issues are discussed regarding the "quality of life" and human development, "society's basic unit", the family plus parenting skills in our complex, consuming, and technological society. The importance of the need to provide love, continuity and stability, as well as the basic food, clothing, and shelter requirements is addressed.

Child Studies 120 includes a variety of human centered experiences from conception through to the development of the school age child. Thus, ongoing observations and experiences with children is an essential part of the program.

MATHEMATICS DEPARTMENT

Students are required to take one math credit beyond Grade 10, either Geometry and Applications in Mathematics 111 or 112 or Applications in Mathematics 113. We recommend that students take the second Grade 11 Math credit which is called Functions and Relations 111 or 112 or Patterns and Relations 113. A compulsory provincial examination comprising 30% of student's final mark is to be written upon the completion of this second Grade 11 math credit.

GEOMETRY AND APPLICATIONS IN MATHEMATICS 111 (MATH 111A)

Prerequisite: Recommendation of Grade 10 math teacher.

The course includes all topics of Geometry and Applications 112 but in greater depth. Problem solving skills are emphasized as students are prepared to write external contests. Students will also be challenged to do individual mathematical research.

GEOMETRY AND APPLICATIONS IN MATHEMATICS 112 (MATH 112A)

The course includes statistics, independent study, probability, circle geometry and problem solving.

APPLICATIONS IN MATHEMATICS 113 (MATH 113A)

Topics included in the course are statistics, independent study, probability and decision making in consumer situations.

FUNCTIONS AND RELATIONS 111 (MATH 111B)

Prerequisite: Geometry and Applications 111

The course includes all topics of Functions and Relations 112 but in greater depth. Problem solving skills are emphasized as students are prepared to write external contests. Students will also be challenged to do individual mathematical research.

FUNCTIONS AND RELATIONS 112 (MATH 112B)

Prerequisite: Geometry and Applications 112

The course includes applications of trigonometry, quadratics, rate of change and exponential growth and problem solving.

PATTERNS AND RELATIONS 113 (MATH 113A)

Prerequisite: Applications in Mathematics 113

Topics included in the course are linear programming, trigonometry, patterns, quadratics, exponential growth, and geometry of design. A compulsory examination is written upon completion.

TRIGONOMETRY AND 3-SPACE 120

Prerequisite: Functions and Relations 111 or 112

May be taken concurrently with Advanced Math with Calculus 120

This course is required for students who are intending to pursue a university degree in Sciences, Computer Science, Engineering and Business.

Topics included in the course are: the algebra of 3-space, matrix operations, trigonometric functions and equations, rotational matrices associated with trigonometry, regression analysis, trigonometric proofs and identities.

ADVANCED MATH WITH CALCULUS 120

Prerequisite: Functions and Relations 111 or 112

May be taken concurrently with Trigonometry and 3-Space 120

This course is required for students who are intending to pursue a university degree in every faculty except Arts.

This course includes the following topics: sequences and series, analysis of functions, concept of the limit, definition of a derivative, differentiation techniques and complex numbers and problem solving.

CALCULUS 120

Prerequisite: Advanced Math with Calculus 120

This optional course is designed for students who wish to take further mathematics at university. It is mainly a calculus course and includes the following topics: functions, further trigonometry, parametric equations, slopes and rates of change, limits, derivatives of sum, product and quotient, chain rule, implicit differentiation, velocity and acceleration, related rates, problems maximum and minimum values, curve sketching, definite and indefinite integrals, area under curve differentiation and integration of trigonometric, and exponential and logarithmic functions.

MUSIC DEPARTMENT

MUSIC 110

This course is designed for beginner musicians and for students who enjoyed Grade 9-10 music but do not have the theoretical or practical background to take 112. This course focuses on both the practical aspect of music through playing an instrument and on the more theoretical aspect of music reading, basic theory, song writing and history. Many students who already know how to play guitar or piano by ear and learn how to read music find this course very useful.

MUSIC 112

Prerequisite: success in the 9/10 Music Program or permission by instructor. Those who are participating in Rothesay High School performing groups such as Band, Choral are encouraged to take this course. Private students of piano, voice and other instruments may also apply.

Course content: Emphasis will be placed on both the practical aspect of music such as singing and playing instruments, and the academic aspect such as theory, harmony, ear training, and music history. The aim of the course is to develop a well-rounded, knowledgeable and competent musician at the high school level.

MUSIC 122

Prerequisite: Students taking this course must have had success in Music 112. (Teacher recommendation required)

As in Music 112, this course places emphasis on practical and academic aspects of music. It is an excellent choice for musicians who have a solid theory background as it extends musicianship into other topics such as Canadian music history, computers in music, composition, ear training and performance. This course is designed to be fairly student directed. Independent research and study will be expected.

PERFORMING ARTS 120

Students will learn all aspects of performance (including stage, tech, lighting) whether it be vocal, instrumental or dance. They will have the opportunity to participate in the performing arts series and our musical to enhance those skills taught.

SCIENCE DEPARTMENT

In order to graduate, a student must have a minimum of one science credit.

CHEMISTRY 111

Prerequisite: Grade 10 science

This course covers essentially the same topics as Chemistry 112. However, most topics are covered in greater detail and some topics are covered independently.

CHEMISTRY 112

Prerequisite: Grade 10 science

This course is a college preparation course and is an entrance requirement for science related university courses as well as community colleges and nursing programs. The course will begin with a quick review of atomic theory and the periodic table of the elements, and then will go on to cover compounds, chemical reactions, the mole, stoichiometry, and an introduction to chemical bonding. This course has a large lab component that will familiarize students with lab safety, lab apparatus and a variety of laboratory techniques.

CHEMISTRY 121

Prerequisite: Chemistry 111

This course covers essentially the same topics as Chemistry 122. However, each topic is covered in greater detail and more independent thought is required.

CHEMISTRY 122

Prerequisite: Chemistry 112

This is the second Chemistry course in which science oriented students should enroll. In this course, the following sections will be covered: Organic Chemistry, Thermal Chemistry, Chemical Equilibrium (kinetics), and Acids and Bases. The labs associated with this program will be considerably more challenging. In addition there are substantial theoretical and mathematical components to this course.

PHYSICS 111

Prerequisite: Grade 10 Science

This course covers essentially the same topics as Physics 112. However, each topic is covered in greater detail and more independent thought is required. Students are also required to do additional independent research.

PHYSICS 112

Prerequisite: Grade 10 Science

This course is a college preparation course and is an entrance requirement for science related university courses as well as community colleges and nursing programs. This is the first of two Physics courses and it is recommended that all science-oriented students take both courses. The course will begin with a review of scientific notation, significant digits and the metric system. The following topics will then be covered: heat, waves, sound, light, optics, electricity and magnetism. There is a lab component to this course, and students will be expected to complete regular lab reports.

PHYSICS 121

Prerequisite: Physics 111

This course covers essentially the same topics as Physics 122. However, each topic is covered in greater detail and more independent thought is required.

PHYSICS 122

Prerequisite: Physics 112

This course consists mainly of the mechanics of one and two-dimensional systems. Topics such as motion, momentum, torque, work and force will be covered. There is substantial mathematical component as trigonometry and quadratic equations are used in problem solving. This course contains a fewer number of labs than the grade 11 course, but each of the labs is much longer and more detailed.

PHYSICS AP

This course is designed for those students who have a strong background in both science and mathematics. Lab work and data analysis using technology constitutes a significant portion of this course. Topics will be covered in greater detail, and the use of calculus will be introduced as a tool for solving problems.

ENVIRONMENTAL STUDIES 122

This is a one year college preparatory course. The major topics covered will deal with the structure of the environment, attitude towards the environment, the ecosystem, concept, natural resources, population, sustainable development and current environmental issues. The course includes lecture demonstrations, laboratory work, and field trips (where possible). Although there is no prerequisite, students who have taken, or are presently taking either a Biology or Chemistry course will find it helpful.

ENVIRONMENTAL STUDIES 123

This is a general course designed for students in their eleventh or twelfth year who wish to become more familiar with their environment. Emphasis is placed on participation in classroom activities. Topics covered include: what is the environment, attitudes to the environment, natural resources, ecosystem, populations, sustainable development, and current environment problems.

OUTDOOR PURSUITS/ENVIRONMENTAL SCIENCE

In this two credit course students will explore the outdoor environment in and around the Kennebecasis Valley. They will partake in various activities such as hiking and camping while learning more about their outside world. Students will learn many useful skills to pursue careers in outdoor activities. They will learn survival skills that will be useful for a lifetime.

BIOLOGY 112

Prerequisite: Grade 10 Science

Biology 112 is a laboratory oriented course that emphasizes the knowledge, skill, and STS (Science, Technology and Society) connections among the following topics: structure of cells, classification of living things, flow of matter and energy in organisms and biosphere, matter and energy exchange in digestive, respiratory, excretory and circulatory systems, blood and immunity.

BIOLOGY 113

This course should be selected by students who wish to gain a general knowledge of fundamentals of biology including cell theory, classifications, simple organisms as well as Human Biology. Major topics in Human Biology include support and movement, digestion, circulation, respiration/excretion, nervous system, nutrition, diseases and disorders. Some lab work is also included in this course. Good study skills are a definite asset.

BIOLOGY 121/122

Prerequisite: Biology 111/112

Biology 121/122 is a senior level college preparatory course combining theory and lab work. Students should have a strong science background. Additional science courses, especially Chemistry 122 and Physics 112 would be helpful. Topics covered include: system regulatory change in human and other organisms, reproduction and development, chromosomes, genes and DNA, and change in population, communities and species.

PHYSICAL GEOGRAPHY 110

Physical Geography 110 is the study of the physical features of the earth and their effects on mankind. It examines the interaction among all components of the environment and emphasizes the relationship between the land and humanity. It examines climatology and meteorology and their impact on people. It is designed to develop an understanding of the basic principle of the geographic method that will enhance transferable skills. This course is accepted for university entrance as a science elective.

SOCIAL SCIENCES

LAW 120

This course is open to any Grade 11 or 12 student. It provides a general introduction to legal principles and concepts, both criminal and civil. The major topics covered are: courts, civil rights, contracts, torts, consumer protection, criminal law, labour law and family law.

MODERN HISTORY 111 - 112

This is a Modern History course that allows the individual schools considerable flexibility in their choice of topics. The following topics are studied: the French Revolution, the Industrial Revolution, the clash of Nationalism; the unification of Germany and its effects, the Totalitarianism Challenge: the Communist Left and the Fascist Right, World War II and the Holocaust, Toward a Global Society; the continuing search for security and the emergence of the developing world.

F.I. HISTORY 110

See Modern History 112. This program follows parallel tracks to the English curriculum.

MODERN HISTORY 113

This is a twentieth century history course which surveys the following topics: basic world Geography, Industrialization, World War I, Life in the 1920's and 30's, World War II, The Holocaust, the Cold War, China in Revolution, and The Middle East.

CANADIAN HISTORY 122

Prerequisite: Modern History 111, 112 or FI equivalent

This course involves the history of Canada from "who might have discovered America" to modern day Canada. The course is covered by a topical approach, such as American Revolution, Acadians, Loyalists, War of 1812, Rebellion of 1837, Confederation, Canada at War, Rediscovering Canada's past, answers to our present day problems through lectures, discussions, debates and films.

POLITICAL SCIENCE 120

This course begins by questioning the need for government. The advantages and disadvantages of government are presented. The major works of several political leaders such as Machiavelli, Hobbes, Locke, Rousseau, Tocqueville, Marx and others are introduced. Their major concepts, assumptions and propositions about government, society and human nature are examined. The role of democratic and dictatorial political institutions associated with the ideas of these political theorists is also examined. These include: an historical perspective of the decline of absolute monarchy and the rise of parliamentary supremacy in England and France, an analysis of constitutions and constitutionalism in Canada and the United States, a comparison of the Canadian executive (Governor General, Prime Minister and Cabinet) and legislative branch (House of Commons and Senate) of government of that of the executive branch (Presidency) and legislative branch (Senate and House of Representatives) of government in the United States, and an examination of the electoral process (nomination conventions, leadership conventions and the voting process).

The course involves a field trip to the Provincial Legislature in Fredericton and the participation of a number of guest speakers. These include political scientists from the academic community (university professors) and federal and provincial politicians (Members of Parliament and Members of the Legislative Assembly).

ECONOMICS 120

Economics is the social science that investigates problems arising out of scarcity of limited resources to satisfy unlimited human wants. One of the major roles of an economist is to give advice to business and government on how to best allocate limited resources so that they can be used in the most productive and efficient way. There are several areas of concentration that are central to the study of economics which include: direct costs/opportunity costs, production-possibilities curves, the law of diminishing returns, economic systems (resource ownership and the decision process) the operation of a market (factors affecting supply, supplier response to price changes, changes in supply, the interaction of supply and demand, the supply and demand, the stock market, the futures market, the operation of a free market system, price elasticity of demand, price elasticity of supply, the impact of government intervention (price ceilings, rent controls, price floors, and taxation), government spending, sources of government revenue, federal/provincial financial arrangements, economic indicators (unemployment, inflation, gross domestic product, international trade, money and the Canadian chartered banking systems, the Bank of Canada, the money market, money policy, fiscal policy, types of business organizations in Canada, production costs, etc.)

CANADIAN GEOGRAPHY 120

This course is based on a topical approach to the study of Canadian geography. Some of the topics for study include the following: map work dealing with a variety of geographical concepts (absolute location, latitude, hemispheres, poles, equator, tropic of cancer, tropic of Capricorn, etc.), the building of Canada's landform regions in terms of geological time (Precambrian shield, Great Plains, Western Cordillera, Great Lakes/St. Lawrence Lowlands, Appalachians, Northern Montana and Lowlands), the process of folding and faulting, plate tectonics, the rock cycle (igneous rock, sedimentary rock, metamorphic rock), the erosion cycle, weather and climate, natural vegetation and wildlife, the soils of Canada, an examination of Canada's diverse population (census, distribution, and density, migration, age, sex, special people), the first Canadians (the Indians, Inuit, and the Metis, social conditions, economic concerns, and land claims), immigration policy, settlement, patterns, urbanization, residential areas, forestry, agriculture, mining, fishing, energy and water.

WORLD ISSUES 120

The need for an education that promotes a global perspective has become increasingly apparent of late. There is a growing awareness that many of the problems we face are global in nature and require a global solution. The issue of acid rain, deforestation, the Chernobyl incident, the October 1987 stock market crash serves to remind us that the events in any part of the world have a reverberating effect and therefore, it is essential we adjust our perspective to acknowledge this new reality. Phrases such as the "Global Village" and Spaceship Earth help promote a mental image which underlines this new perspective – this revolution in the way we look at our world. The purpose of the unit of study is:

- to acquaint students with these forces which have combined to create the Global Village
- to promote a greater knowledge of global dynamics
- to make students aware of the human choices, confronting individuals and nations within the global system

MARITIME LORE AND LEGEND 110

Various Maritimes cultures, folklores, myths, and legends will be explored. Students will choose a myth, legend, etc., do a research on it, find out why it came to be, find out what parts are fact and which are fiction, and determine why some truths got distorted over time, and do a presentation to the class. They might choose a legend of a buried treasure (i.e. - a pirate like Cpt. Cook, an Acadian family fleeing deportation, etc), do research on who buried it, why they buried it, and whether it was ever found. If so, what were the contents, and why were they so important. They might choose a legend (Micmac, Maliceet, Acadian, Irish, etc) and research it in order to find out how the legend got started, what truths lie within the legend and what is clearly fiction, and why this distortion of the truth happened, and do a class presentation

ADVANCED PLACEMENT PSYCHOLOGY 12

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behaviour and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. This course is the equivalent of an introductory psychology course taught at the university level. Students will be required to do readings before the semester starts. Students who choose to write

the AP exam may qualify for advanced standing or credit at university. Check with individual institutions for the AP policies.

SOCIOLOGY 120

This course will increase the student's awareness of themselves and others as social beings and of the social processes that shape the world in which they live. They will develop an awareness of the problems confronting contemporary society including crime, race/ethnic relations, urbanization and the increasing complexity of social life. This course would be of interest to those students whose interest is in careers such as business, law, nursing, teaching and social work.

TECHNOLOGY DEPARTMENT

APPLIED TECHNOLOGY 110

Applied Technology 110 is designed to provide students with the opportunity to explore a broad range of technology applications in a multi-activity learning environment. Working cooperatively in pairs, students will complete between seven and eight units of study in a technology related area. Students will think critically and logically to evaluate situations, solve problems and make decisions relative to the area that is being studied.

COMPUTER AIDED BASIC DRAFTING 110

This drafting course introduces students to the presentation and visualization of ideas using technical drawings. Students will produce a series of mechanical drawings in their study of this graphic communication form. Both computer CAD stations and standard drawing instruments will be used in this course.

This course will be of interest and value to a wide range of students, as an understanding of technical drawings is required in most engineering, technology and trade fields.

COMPUTER SCIENCE 110

Computer Science 110 introduces the student to computer programming. The students will learn how to program in a language called VISUAL BASIC. Students will acquire the skills to write programs to solve business and other related problems. Students will be introduced to the Internet.

COMPUTER SCIENCE 120

Prerequisite: Computer Science 110

Computer Science 120 adds to the concepts and skills developed in Computer Science 110. The course will lead to a more structured approach to problem solving and programming. During the course, the students will be introduced to a variety of different programming concepts including character string manipulation, two dimensional arrays, file handling, and sorting and searching techniques. The student will also be introduced to terms and techniques relating to computer system analysis. Students considering taking Computer Science 120 should have a good understanding of the concepts introduced in Computer Science 110. As part of this course, a second computer language will be learned.

DIGITAL TECHNOLOGIES 120

Digital Technologies 120 is a skills-based course designed for self-paced interactive learning. Students will study Web development, digital imaging, digital animation and digital audio. The skills that are developed will allow students to build complex Web and multimedia productions.

INTRODUCTORY ELECTRONICS 110

This course allows the student to explore electron behaviour in simple and complex circuits and to investigate its behaviour in direct current devices under laboratory conditions. This course will also explore electronics, introducing basic electronic components such as diodes transistors, integrated circuits, inductors and capacitors along with basic

electronic circuitry. Introductory Electronics will be of interest to students with career objectives in the electrical occupational area as well as those who plan to continue their education at the technical or engineering level.

Module One: Web Publishing consists of an introduction to the Internet and the World Wide Web. Students learn the basics of navigation on the WWW and some research techniques. They also learn how to create and publish a Web site on the Internet.

Module Two: Graphic Design introduces students to the basics of creating effective graphics and animation on screen. It focuses on graphics and what will be used in an online environment and to paying particular attention to screen design as well as explaining the different formats and the compression standards of the images used.

Module Three: Telecommunication Networks provides an introduction to the basic principles of how physical networks operate. Some topics include: digital numbering, LANs, WANs, wireless communications, and future telecommunication developments.

Module Four: Telecommunications: Meeting people's needs, explores the issues that are being raised by the rapid rise in the use of electronic telecommunications. Students, using a variety of electronic communication environments, will identify the strengths and weaknesses of each and demonstrate their appropriate use.

Module Five: Computer Applications exposes students to the Microsoft Office suite of applications. This suite includes Word, Excel and Access.

MILL AND CABINET WORK 120

This course is designed to provide for the acquisition of knowledge and the development of skills and work habits required to construct cabinets and built-ins found in a typical residence. Emphasis is placed on using and maintaining woodworking tools and machines. Students practice planning projects and doing cost and material estimates. The course should appeal to students interested in entering construction and woodworking occupations or with a general interest in woodworking and for those exploring options for a future career choice.

STUDENT SERVICES DEPARTMENT

RESOURCE

The Resource teachers work with students individually or with small groups of students, on skill development and on developing learning strategies to handle the regular curriculum.

GUIDANCE

One full-time Guidance Counsellor is involved in ongoing educational, career and personal counselling for individual students and/or groups.

The counsellor also consults and coordinates with teachers, parents, administrators and the community in the interest of the individual needs of the students.

Among other duties, the counsellor is involved in high school course selections and registrations for university and community colleges. Career information and exploration, scholarships, special programs such as study skills, and peer helpers are part of the ongoing service.

LIBRARY

The Library is an integral part of the program offered at Rothesay High School. Every Grade 9 student is introduced to the Library which includes orientation to the resources and instruction in the basics of research. All students use the Library (internet access available) thus expanding the prescribed curriculum.

CLUBS AND SPORTS

Rothesay High School students will be able to select activities like those listed:

Student Council	Dinner Theatre
Intramurals	Yearbook
Christian Fellowship	Drama
Tech Crew	Tutoring
Video Yearbook	Society of Fine Arts
Grad Class Committee	Environmental Club
Chess Team	Student Leadership
Making Waves Group	T.A.D.D.

Music Performance Ensembles: Choir, Concert Band, Jazz Band

Fall Sports

Girls Badminton
Boys Badminton
Cheerleading
Girls Soccer
Boys Soccer
Golf
Tennis
Football
Swimming
Baseball
Cross Country

Winter Sports

Girls Basketball
Boys Basketball
Girls Hockey
Boys Hockey
Wrestling
Curling
Figure Skating
Skiing

Spring Sports

Girls Volleyball
Boys Volleyball
Boys Rugby
Girls Rugby
Track & Field