

Course Calendar *2010-2011*

RESTON COLLEGIATE HANDBOOK – 2010/2011

INTRODUCTION

This booklet provides information about the programs and courses offered at Reston Collegiate Institute. It includes information about entrance requirements to universities and community colleges in Manitoba.

Students in Grade 9 to 12 receive credits for each course they complete successfully. R.C.I. operates on a two-semester system, with the first semester running from September to January, and the second semester running from February to June, courses may also be taken over both semesters.

The high school diploma emphasizes common learning in Grade 9 and 10, with Grade 11 and 12 designed to meet individual student needs through a wide array of elective courses. There are foundation, general, and specialized courses in different subjects.

GUIDELINES

FOR PARENTS

Most serious career decisions are made **at home**, by students **and** their parents. Parents can ensure their children make suitable course selections by considering the following:

Discuss your child's interests;

Assist your child as he or she chooses courses;

Try to be realistic about your child's potential and ability. A course/program that is too difficult could result in undue frustration and, unfortunately, an incomplete high school education. A route that is too easy, however, may close career options;

Keep college and university prerequisites in mind.

FOR STUDENTS

Carefully consider your options;

Take courses you want and need;

Consider your interests and aptitudes, and discuss your plans with parents, teachers, the principal, or a guidance counselor;

Find out about entrance requirements for university and community college programs,

Grade 9 students are encouraged to think about their plan after high school. **Courses you choose for Grade 9 can open or close career options after graduation.**

Grade 10, 11 and 12 students are encouraged to check their on-line schedule to see that it is meeting their career needs and to set meetings with the Career/Guidance Counselor to plot out their future direction for further education or the workplace.

USING THIS HANDBOOK

Course Letters

Course letters identify each subject as foundation, general, specialized, advanced, modified, or individualized.

Foundation (F): New curriculum replaces previous G designation, i.e. Grade 9 and 10 English, Grade 9 Mathematics, and Grade 9 and 10 Science.

General (G): General education experience for all students.

Specialized (S): Learning experiences and skills leading to post-secondary studies.

Modified (M): The curriculum is modified 50% or more to take into account the capabilities of students with special needs.

Course Numbering

A three-character code makes up the course numbering system. The first and second characters are numerals, and the third is a letter. This designation is for courses approved for credit by Manitoba Education and Training.

First Character:

- 1 – courses developed for Grade 9
- 2 – courses developed for Grade 10
- 3 – courses developed for Grade 11
- 4 – courses developed for Grade 12

Second Character:

- 0 – Manitoba Education, Citizenship and Youth one-credit course.
- 5 – Manitoba Education, Citizenship and Youth half-credit course.
- 1 – school or division developed course (includes SIPSs).
- 2 – university, out-of-province, or out-of-country credit.

Third Character:

F	–	Foundation
G	–	General
M	–	Modified

PREREQUISITES

When students plan their courses, prerequisites must be considered. Many courses are based on a foundation of knowledge and skills acquired in other courses. ***Certain courses must be taken in the proper sequence.*** For example, all mathematics, science, technology, and humanities credits are to be taken in the proper order (e. g., English 10F before English 20F). Students are encouraged not to take two or more grade levels of these courses at the same time.

DIPLOMA CHOICES

Students at Reston Collegiate are offered two different programs – High School Diploma and Technology Education Diplomas in Business Education. **NOTE:** Students who meet the requirements of both the diplomas receive both a High School and a Technology Education Diploma.

TECHNOLOGY EDUCATION DIPLOMA

A Technology Education Diploma requires the completion of 30 credits **and** includes a minimum of eight credits in business and marketing credits. This diploma provides an excellent background in theory and includes courses that help develop skills students will need as they enter the business world.

COMPULSORY REQUIREMENTS

Grade 9

Math 10 F
ELA 10F
Social Studies 10F
Science 10F
P.E. 10F

Grade 10

Math 20F
ELA 20F
Geography 20F
Science 10F
P.E. 20F

Grade 11

Math 30F
ELA 30F
History 30S
P.E. 30F

Grade 12

Math 40
ELA 40F
P.E. 40F

CERTIFICATES OFFERED AT RCI

Provincial High School Diploma

All students will be required to earn 30 credits to graduate.

Certificates issued by Fort La Bosse School Division are awarded as follows:

Gold Special Achievement: Students who fulfill the requirements of any program and attain 34 or more credits receive this certificate.

Silver Special Achievement: Students who fulfill the requirements of any program and attain 32 credits receive this certificate.

MATURE STUDENT SENIOR YEARS GRADUATION

Adult students may return to RCI to complete their high school education. These students must meet slightly different criteria in order to graduate. For details, please make arrangements to meet with the administrator.

UNIVERSITY ENTRANCE REQUIREMENTS

Many students and parents are concerned about university entrance requirements. Students should carefully select courses to meet the general and specific course entrance requirements for faculties. **Because the requirements frequently change, check a current university calendar to ensure wise course selection.**

COMMUNITY COLLEGE ENTRANCE REQUIREMENTS

Community college programs require various prerequisites. Due to the wide range of trades and technologies, students should discuss entrance requirements with the college of their choice. This is best done early in a student's high school career.

Most community college programs require Grade 12 for admission to the program. A few programs require only Grade 10, but most employers will not consider anyone who has not completed the Grade 12 program.

COURSE SELECTIONS

Students registering for the 2010-2011 school year need to take note of the following rules prior to making course selections.

The handbook outlines the **BASIC REQUIREMENTS** of the regular high school and the technology education programs. Students and parents need to check the requirements carefully and to consult with homeroom teachers, guidance counselors and/or administration to make wise choices.

University bound students should check English, Math, and Science entrance requirements. For example, the University of Manitoba may require two Grade 12 English credits plus one Grade 12 Math **or** one Grade 12 English plus Pre-Calculus 40S.

Grade 10 course choices in Mathematics represents a major milestone in career decisions at high school. This subject splits into different streams with each resulting in significantly different career choices. Students should seek direction from the RCI staff **BEFORE** deciding which choices to make.

Mathematics

There are four streams in Grade 11 and 12:

Applied,
Pre-Calculus,
Essential Mathematics, and
Accounting.

After Math 10F, students are faced with two choices at Grade 10:

Introduction to Applied and Pre-Calculus 20S (MAC20S),
Essential Mathematics 20S (MES20S).

Which Math to take?

Universities accept any math stream for general admittance, but specific faculties have much more stringent requirements. Community colleges also have specific entrance requirements, which vary from course to course and college to college.

What should students do?

Check specific entrance requirements for the careers in which they are interested, **prior to registering in Grade 10 Math.**

If students are not certain what they will be doing after graduation, they should try to keep as many options open as possible.

Remember – Applied and Pre-Calculus Math Course can ONLY be entered at Grade 11.

COURSE OPTIONS AT RESTON COLLEGIATE

FINE AND PERFORMING ARTS

Art 10G

As a student enrolled in this course you will be exposed to visual awareness experiences. These experiences will help you to develop sensitivity to both the natural and built environments. Art appreciation experiences will encourage you to look at, talk, write and sketch about all kinds of art. Art production experiences will encourage you to experiment with different art materials and processes and to make your own works of art. There will be a cost to cover materials.

Art 20G

This is an introductory course. The elements and principles of art theory are studied through application in assigned studio artwork. An emphasis on drawing is designed to enhance visual perceptual skills. The course also includes art history and art critique. A variety of media are used. Students are expected to display their work in an art show. Class size is limited by space.

There will be a cost to cover materials.

Art 30G

The overall goal of the art program is to develop visual art literacy in such a way that young people can express themselves visually and understand visual communication and meaningful artistic expression. Students learn to observe, to appreciate, and to understand art through continued discussion of the elements and the principles of art. The course also includes the history and the critique of art, as well as the use of a variety of media. Students are expected to display their work in an art show. Class size is limited by space. There will be a cost to cover materials.

Art 40G

Prerequisites: Art 20G **or** Art 30G **or** submission of two pieces of the student's original artwork: one in color and one in black and white, at least 8.5 by 11.

Students continue their own personal exploration of art through their own expressive styles. Students are expected to submit proposed art projects plus critiques of their own work. Art history and critiques of other works continue to be part of this course to help students arrive at a personal understanding of the nature and function of art in our society. Students are encouraged to use a variety of art media. Students will display their work in an art show. Class size is limited by space.

There will be a cost to cover materials.

Band (BAN10G, BAN20G, BAN30S, BAN40S)

Band classes meet every second day for the entire school year. The Band program covers all types of music from Baroque to Modern 20th Century music. Band skills such as technical, expressive and reading skills are developed and emphasized. Music history, theory and ear training are part of the Band program. The band performs throughout the year. In all band years, the goal is to develop a well-trained and skilled band member. Out-of-class activities include performances at assemblies, concerts, Virden Festival, band tours, and clinics. Enthusiasm and a love of music is required.

CAREER DEVELOPMENT

Life/Work Exploration

Students will explore the scope of career development and the range of personal competencies one needs to make appropriate decisions to prepare for life and work. This course will provide students with the opportunity to develop an Annual Education Plan and a Career Portfolio that will be used for short and long-term planning of career goals. In addition to the classroom component students will spend approximately 20 hours in the community exploring various worksites.

Life/Work Planning

This course is designed to help students develop the ability to make effective decisions, set goals, make plans and act on plans, evaluate and modify plans to adjust to change. Students will be required to engage in and manage their own life/work building process. They will review the various components of the high school program, reflect on personal experiences and use this knowledge in developing /refining an annual education plan and career portfolio. Students will learn about the changing nature of life/work roles, factors involved in making life/work enhancing decisions, lifelong learning and its contribution to one's life and work. In addition to the classroom component students will spend approximately 25 hours in the community to get exposure to a specific occupational experience.

Life/Work Building

This course teaches students to focus on personal management skills, work as a team, locate work information, plan for post-secondary financial aid, understand life/work balance and transition from high school. In addition to the classroom component, students will have approximately 45 hours at a worksite(s) to apply the specific program outcomes of the course during their Career Community Experiences Unit.

Life/Work Transitioning (LWT40S)

This course gives students opportunities to internalize all the learning outcomes in a classroom setting and then spend up to 80 hours applying and personalizing these outcomes in their Career Community Experience. The Grade 12 program emphasis is on transition from high school to post-secondary training and preparation for employment.

ENGLISH LANGUAGE ARTS

English 10F

This program is based around the 5 General Outcomes, which are part of the Foundations for Implementation of the Grade 9 Manitoba Curriculum. The General Outcomes are: exploring thoughts, ideas, feelings, and experiences, comprehending and responding personally and critically to literary and media text, managing ideas and information, enhancing the clarity and artistry of communication, celebrating and building community. *Students will practice and develop skills in reading, writing, listening, speaking, representing, and viewing.*

English 20F (LAE20F)

English 20F is a continuation of the program begun in Grade 9. This course follows the Grade 10 Manitoba curriculum. Students are evaluated on successful work in the five General Outcomes and the 56 specific outcomes. These are achieved through a study of novels, drama, poetry, fiction and non-fiction; and through reading, writing, listening, speaking, representing, and viewing.

English 30S Comprehensive Focus

This course continues the focus on the same 5 General Outcomes and the expanded 56 specific outcomes as in Grade 9 and Grade 10. This course provides a balanced program of practical and literary texts and skills. *Students will practice and develop skills in reading, writing, listening, speaking, representing, and viewing.*

English 40S Comprehensive Focus

This course continues the focus on the same 5 General Outcomes and the expanded 56 specific outcomes as in Grade 9, Grade 10, and Grade 11. This course provides a balanced program of practical and literary texts and skills. This course is 50% literature and 50% transactional and technical.

STUDENTS WILL WRITE A PROVINCIAL STANDARDS TEST IN THIS COURSE.

English 40S Literary Focus

This course continues the focus on the same 5 General Outcomes and the expanded 56 specific outcomes as in Grade 9, Grade 10 and Grade 11. This course focuses 70% on literary and 30% on practical reading and writing.

This specialized course is intended for students with post-secondary educational goals.

STUDENTS WILL WRITE A PROVINCIAL STANDARDS TEST IN THIS COURSE.

Language and Technical Communication 40S

This course applies reading, writing, listening, speaking, viewing, and thinking to technical forms of communication used in business, in technology, and in science.

Technical Communication is designed for students interested in pursuing post-secondary goals related to engineering, trades, management, science, law, medicine, dentistry, business administration, computer science, nursing, accounting, agriculture, and retailing.

Language and Transactional Forms 40S (LAT40S)

Provides learners with experiences related to reading, writing, listening, speaking, viewing, and thinking. In transactional English, however, use of language is more specialized and designed to meet individual post-secondary needs.

It is intended for students whose post-secondary goals include an emphasis on journalism, public relations, media or creative communications.

Language

French (FRE10G, FRE20G, FRE30S, FRE40S)

The French curriculum enhances many aspects of other courses. Students acquire different learning processes, which are only developed by taking a second language. Students read, write, view and speak as they explore different themes. Students are actively involved in their learning at each step of the process. Evaluation is varied and frequent, including a final exam.

The French curricula recognize that learning is a gradual and cumulative process. Each grade level builds on past concepts, skills, knowledge, and experiences; each level contains specific communication, experience, and language objectives.

A second language enhances personal opportunities for jobs, careers, education, travel, and relationships.

Dakota (DAK11G, DAK21G, DAK31G, DAK41G)

This language course prepares all students to learn to communicate effectively with a native speaker of the Lakota/Dakota Language. A variety of cultural experiences will be provided. Students will speak, listen, read, and write in Lakota/Dakota; develop insight into the Lakota/Dakota Language and Culture; develop insight into her/his own language and culture; and gain direct access to information in the Lakota/Dakota Language (use of technology, newspapers, video tapes).

SOCIAL SCIENCES

Social Studies 10G

This is a general study of Canadian topics with focus on identity and culture, regional challenges, Canadian government, Canadian law, Canadian economic system, French-English relations, plus Canada and the world.

Geographic Issues of the 21st Century 20F

A regional study of North America covers all the basic aspects in the relationship between the physical and the human environment. The course develops a fairly good knowledge of the fundamentals of geography. There is some problem-solving, research, map work, and individual and group projects.

History 30S

This course is a social and political history of Canada. The important political events are studied against the background of the economic and social events in the country, with some stress placed on the lives of “average people”. This course consists of six units which are developed into basic themes such as the peopling of Canada; new societies to 1867; government, federalism and politics; social and economic changes in modern Canada; Western Canada; and Canada’s external relations.

World Issues 40S

This is a study of current events, issues, and areas of the world in the news in our time: terrorism; refugees; First World Nations; Second World Nations; Third World Nations.

MATHEMATICS

Mathematics 10F

This course focuses on developing mathematical knowledge, skills, and attitudes by utilizing a problem solving approach. Units include statistics, polynomials, linear relations, equations, powers and exponents, similarity, circle geometry, symmetry and number sense. Student goals are to value math, to become confident in their math abilities, to become math problem-solvers, and to communicate and reason mathematically.

Essential Mathematics 20S

This interesting, practical Math course emphasizes project work. Topics include statistics, personal finance, shapes and space, problem analysis, career skills, trigonometry, spreadsheets, and recreational math. The lack of algebra in this course, while making it much more practical to some students, will impose a restriction on many students entering post-secondary programs in science, math, business, and health care.

Introduction to Applied & Pre-Calculus Mathematics 20S

Grade 10 Introduction to Applied and Pre-calculus Mathematics (20S) is intended for students considering post-secondary studies that require a math pre-requisite. This pathway provides students with the mathematical understanding and critical-thinking skills that have been identified for specific post-secondary programs of study. The topics studied form the foundation for topics to be studied in both Grade 11 Applied Mathematics and Grade 11 Pre-calculus Mathematics.

Applied Math 30S

Applied Math 30S continues the work done in Intro to Applied & Pre-Cal Math 20S. Units include quadratic function, problem solving, research project, proofs, stats, system of inequalities, trig and scale. A TI-83 graphing calculator is required for this course.

Essential Mathematics 30S

Continues where Essential Math 20S leaves off. It is not designed for students wishing to go on to post secondary courses in math, science, technologies, or management, but still provides students with valuable life skills math. Topics include wages, taxation, credit buying, cost of operating a car, functions and formulas, mathematical reasoning, problem solving, and math games.

Pre-Calculus Math 30S

This course continues where Into to Applied & Pre-Calculus Math 20S leaves off in preparing students for calculus at the university and college level. Many areas of math, science, technologies, and management require calculus. It contains units on quadratic functions, trigonometry, algebra, analytic geometry, geometry, consumer math, logic/proof, and functions. Students will be required to complete 54 twenty-question exercises that are very challenging in order to complete this course. A TI-83 graphing calculator is required for this course.

Accounting Principles(ACP 30S) / Accounting Systems(ACS 40S)

Both of these courses can be applied to the Business Technology Diploma.

Completion of ACP 30S is required before taking ACS 40S.

Accounting Principles 30S introduces students to financial principles and practices important to both personal and business life, promotes job entry level skill, and provides an introduction to accounting concepts and procedures studied at the post-secondary level. Accounting 30S is the introductory course and Accounting 40S is an extension of it. Accounting 40S includes “hands on” experience with the computer.

Applied Mathematics 40S

Applied Math 40S continues the work done in Applied Math 30S. Units of study include data management and analysis, spreadsheets, logic, functions, personal finance, probability, design and measurement, periodic functions, sequences and permutations/combinations. A TI-83 graphing calculator is required for this course.

STUDENTS WILL WRITE A PROVINCIAL EXAMINATION IN THIS COURSE.

Essential Mathematics 40S (Starts 2012-2013)

This course is a continuation of Essential Math 30S. It provides a practical, life skills approach to mathematics. Topics include personal finance, investments, taxation, statistics, and geometry. This course is not designed for students who intend to enter post secondary programs in science, math, business, or health care.

STUDENTS WILL WRITE A PROVINCIAL EXAMINATION IN THIS COURSE.

Pre-Calculus Math 40S

This course is designed for highly motivated students who wish some introduction to areas of mathematics that will be studied in depth in post secondary programs. This course will be of particular interest to those students planning to register in Engineering, Science, Management, and other mathematics-oriented faculties in university or in the two-year technologies in community colleges. Topics of study are circular functions, transformations, logarithms, exponents, permutations, combinations, trig, conic sections, statistics, and geometric sequences. Students will be required to complete forty twenty-question exercises that are very challenging in order to complete this course. A TI-83 graphing calculator is required for this course.

STUDENTS WILL WRITE A PROVINCIAL EXAMINATION IN THIS COURSE.

PHYSICAL EDUCATION

Physical Education 10G/20F

Students are expected to participate in a variety of physical activities including individual/dual/team sports, alternative pursuits, and fitness activities scheduled on an ongoing basis throughout the year. Programming will include learning activities that are representative of different learning environments or settings (eg. Playing fields, parks, trails, arenas, and other facilities representative of multi-cultural perspectives).

Guidelines for PE/He include five components:

Movement – Students demonstrate competency in selected movement skills and knowledge of movement development.

Fitness Management – Students demonstrate the ability to develop and follow a personal fitness plan for lifelong physical activity.

Safety – Students demonstrate safe and responsible behavior to manage risk and prevent injuries in physical activity. Students also learn to promote safety in the home, school, community and the environment.

Personal and Social Management – Students demonstrate the ability to develop self-understanding, to make health-enhancing decisions, to work co-operatively and fairly with others and to build positive relationships with others.

Healthy lifestyles practices – For students to demonstrate the ability to make informed decisions for healthy living related to personal health practices, active living, healthy nutritional practices, substance use and abuse and human sexuality.

Physical Education 30F (PED30F)

This compulsory full-credit course is designed to help youth take greater ownership of their own physical fitness, to encourage them to seek out activities that interest them, and to engage in active lifestyles into their futures. Students will study topics related to fitness management, mental health, substance use and abuse prevention, and the social impact of sport. The focus of this content will be on health and personal planning. These topics will make up the core 100% IN-class component of the course content. Students may be required to develop and implement up to 25% of the course on their own time in a personal physical activity plan as part of the physical activity practicum. Students can opt to do the entire IN-class component for 100% of the credit. Students will be introduced to safety and risk management planning to minimize the associated risks of the activities they have chosen.

As part of earning a credit for this course, students will be required to submit a personal fitness portfolio containing elements such as a fitness plan, physical activity log, or journal entries. Students will be graded for completion of the course with a Complete or Incomplete designation.

NOTE: Parents/guardians will be required to review the student's physical activity plan and sign a Parent Declaration and Consent Form acknowledging their approval of the

chosen activities and acceptance of the responsibility for risk management, safety and supervision. Parents/guardians will also be required to verify the entries of the student's physical activity log through a sign-off procedure.

As part of earning a credit for this course, students will be required to submit a personal fitness portfolio containing elements such as a fitness plan, physical activity log, or journal entries. Students will be graded for completion of the course with a Complete or Incomplete designation.

Physical Education 40F

This compulsory full-credit course is designed to help youth take greater ownership of their own physical fitness, to encourage them to seek out activities that interest them, and to engage in active lifestyles into their futures. Students will study topics related to fitness management, nutrition, sexual health, social/emotional health, and personal development. The focus of this content will be on health and personal planning. These topics will make up the core 100% IN-class component of the course content. Students will be required to develop and implement, on their own time, a personal physical activity plan as part of a physical activity practicum. Students will be introduced to risk management planning to minimize the associated risks of the activities they have chosen.

As part of earning a credit for this course, students will be required to submit a personal fitness portfolio containing elements such as a fitness plan, physical activity log, or journal entries. Students will be graded for completion of the course with a Complete or Incomplete designation.

NOTE: Parents/guardians will be required to review the student's physical activity plan and sign a Parent Declaration and Consent Form acknowledging their approval of the chosen activities and acceptance of the responsibility for risk management, safety, and supervision. Parents/guardians will also be required to verify the entries of the student's physical activity log through a sign-off procedure.

SCIENCE

Agriculture 30S On-line

This course provides information about agriculture in Manitoba. Agriculture involves many different dimensions and draws upon the knowledge base of a variety of disciplines. The study of agriculture provides us with knowledge and understanding of agricultural processes, and is also useful in providing information related to career choices. Senior 3 Agriculture examines historical perspectives of agriculture in the province, as well as present concerns and trends. The past, present, and future of agriculture are an important part of this course as they relate to Manitoba's economy, social and cultural development, consumer habits, and politics.

Science 10F

Topics include:

Biology: reproduction – first in simple plants and animals and then primarily on humans.

Chemistry: atomic theory, elements, compounds and mixtures, the periodic table and chemical families plus ionic and molecular compounds.

Physics: static electricity, current electricity (series and parallel circuits)

Astronomy: changing interpretations of the observations of the movements of stars and planets, the solar system, the life story of a star, galaxies and the universe.

Science 20F

Prerequisite: Science 10F

The course consists of four units: Physics - In Motion; Biology - Dynamics of Ecosystems; Weather Dynamics; and Chemistry in Action. It is designed for students to continue their studies in physics, chemistry, and biology. Students will be involved in group work, labs and problem solving. Science 20F is a prerequisite for Biology 30S, Chemistry 30S and Physics 30S

Biology 30S

Prerequisite: Science 20F

This course builds on what students know and are able to do as a result of studies in Science 10G and Science 20F. It continues to retain a human biology focus. Evaluation is based on quizzes, unit tests, group work, laboratory work, and an examination.

Biology 40S

Prerequisite: Biology 30S.

This course builds on what students know and are able to do as a result of their studies in Science 10F and Science 20F. The main core units include genetics (heredity, human genetics, genetic engineering, molecular genetics, and bioethics), biodiversity (evolutionary theory, viruses, monerans, protists, fungi, plant kingdom, animal kingdom), and ecology (ecosystem, biomes, community interactions, population ecology field research). Both Biology 30S and 40S include topics of relevance to students and are prerequisites to further study of biology.

Chemistry 30S

Chemistry opens doors to all the sciences including biology-related fields such as medicine, lab technician, and nursing. Students examine the role of chemistry in the past, present, and future; and the major branches of chemistry. Physical properties and changes in matter are studied. Emphasis is placed upon chemical reactions – how, why, and what quantities of chemicals react with each other. Other units include solubility, acids and bases, and organic chemistry.

Chemistry 40S

The course begins with the nature of chemistry – emphasis is placed upon further developing observation, inference, and communication skills in science. Students generate questions about chemical reactions, and design experiments to help answer these questions. Studies of kinetics, chemical equilibrium, acid-base equilibrium, solubility equilibrium and oxidation-reduction reactions make up the remainder of the course.

Physics 30S

Prerequisite: Science 20F AND recommend either Pre-Calculus Math 20S or Applied Math 20S

Topics include:

Introduction to Physics – Measurement skills, graphics analysis and vectors

Mechanics – Position and displacement, velocity, acceleration, dynamics, impulse and momentum

Fields- Gravitational, electric, magnetic and electromagnetic fields

Waves – Waves in one and two dimensions, sound and light

Introduction to Modern Physics – Radiation

Physics 40S

Topics include:

Introduction to Physics – Relationships, order of magnitude, and vectors

Mechanics – Kinematics, dynamics, projectiles, circular motion, work, energy fields, electric currents, and electromagnetic induction

Introduction to Modern Physics – Particle and wave models of light, photons, and wave./particle duality

Land Management Water Conservation 41S (On-line)

The goals of this course include the students acquiring a greater appreciation and understanding of the environment in addition to gaining an academic background in the field of environmental studies. This will be achieved in part by on-line assignments but also by hands-on field activities in the areas of water sampling, GPS orientation, insect and plant specimen collection and identification. This course offers the opportunity of earning a Grade 12 and Assiniboine Community College credit.

BUSINESS TECHNOLOGY

Note: Eight courses are required from this stream to earn the Business Technology Diploma. Business Technology courses include:

Visions & Ventures 30S

An Entrepreneurship Practicum 30S is a course to help young people understand the challenges of starting their own business.

The entrepreneurial opportunity, elements of risk, and the steps required to launch a successful business are the main focus of the course. On the personal side, the skills, and abilities required for a successful entrepreneur and methods of identifying them are also studied in great detail.

This course is presented in a manner that will assist you in becoming the entrepreneurs and leaders of tomorrow. You will practice the skills required to start an entrepreneurial venture and manage it through the initial growth phase.

Economics 40S

Economics is a part of daily life in the choices we make, in the decisions of communities, governments and business and in the media. While developing the theoretical framework of economics, this course offers real-world examples and explores current economic issues. Major topics include economic systems, supply, demand, monopolies, oligopolies, income distribution, consumption and savings, government spending, money and banking, unemployment, international trade and inflation. This is an introductory economics course and would be an asset to students planning to attend college or university to take business or other related courses.

Law 40S (On-line)

Law develops an understanding of the making of laws, an understanding of the court system in Canada, and an appreciation for the importance of law in our daily lives. Topics include history of law, Canadian Government, criminal law, human rights, civil-tort law, contract law, consumer law, family law, and labor law.

Senior Years Information and Communication Technology

Applying Information & Communication Technology 1 and 2 (TAI15F/TIC15F)

Compulsory for all Grade 9's

Both of these ½ credit courses can be applied towards the Business Technology Diploma. The purpose of this course is to provide students with an opportunity to expand upon previously learned ICT skills. Students will use office productivity software to meet a variety of project outcomes, such as the creation of documents, spreadsheets, databases, web pages and presentations. In addition, students will explore the production of multimedia through a variety of projects that emphasize the use of graphics, animation, audio and video. The integration of software tools will be utilized to complete complex tasks and projects. The Internet and email will be used as communications tools to assist in the research and data-gathering process. Ethical considerations, acceptable use and the challenges associated with various uses of ICT in the home and workplace will also be examined. Throughout the course, students will be working to improve their accuracy and speed with a keyboard using touch-keying techniques.

Digital Pictures 25S

The purpose of this course is to provide students with the skills and knowledge to convey a message through an original digital image. Students will be responsible for capturing all images for the school yearbook.

Desktop Publishing 35S

It can be applied towards the Business Technology Diploma.

The purpose of the course is to provide students with the skills and knowledge to plan and create a variety of published print documents; the major published document being the school yearbook.

Web Design 35S

It can be applied towards the Business Technology Diploma.

The purpose of this course is to provide students with the skills and knowledge to design, develop, and publish a simple website.

Data Collection and Analysis 35S

It can be applied towards the Business Technology Diploma.

The purpose of the course is to provide students with the skills and knowledge to collect, organize, manipulate, and analyze data to solve problems using spreadsheets.

Relational Databases 35S

It can be applied towards the Business Technology Diploma.

The purpose of the course is to provide students with the skills and knowledge to plan, create, and use a relational database built in a Database Management System (DBMS). This course builds on the skills in Visual Basic that were developed in Computer Science 30S. Students will work on a series of ever-increasingly complex projects as they expand their knowledge of Visual Basic and develop even more impressive games and utilities.

Seminar in Business 40S

It can be applied towards the Business Technology Diploma.

This course has been designed to assist students to prepare themselves for the transition to the workforce in small business, industry and/or government. Students will examine the relationship between business and labour, business and government and business and society. It will focus in on the major principals, practices and vocabulary found in business in an attempt to seek out its importance to us all. Students will also be provided with some idea of the great variety of careers made possible by business, government and non-profit organizations.

FAMILY STUDIES

Skills for Independent Living 20G

Focus on the family, its members, problems, and the future. The course is a full credit, which helps prepare students for further study in child-care, social sciences, or for improved quality of life for themselves, their family, and the rest of society.

INDUSTRIAL ARTS

Woodworking Technology 10G

This course appeals to students who enjoy designing and building projects. The program focuses on safety, basic shop procedures, materials, design planning and simple cabinetry. Each student is responsible for the completion of compulsory projects like shelving systems, small tables, and games. After completion of the compulsory projects the students build their own approved projects. As well as being an excellent hobby, woodworking is a great way to express your creativity and develop problem-solving skills.

Woodworking Technology 20G

This course gives students the opportunity to design and to make projects of their own choice (time permitting). Emphasis is placed on design; project construction materials; hardware; power tool procedures and operation; joinery; and finishing processes. The students receive a series of design challenges and then they create their own working drawings, material lists, and plans to satisfy a variety of constraints. Woodworking is a great way to express your creativity, improve your problem-solving skills, and develop an excellent vocation or hobby.

Woodworking Technology 30G

Students are expected to work at a higher level in 30G. This is demonstrated in their selection, design, and planning of major projects. Topics covered are mass production, blue print reading, jigs and templates, advanced joinery techniques, and the design and planning of furniture and casework. Woodworking is a great way to express your creativity, develop a career, to acquire job experience as well as being an excellent hobby.

Woodworking Technology 40G

This course appeals to students who enjoy designing and constructing buildings. Topics covered are framing, roofing, stair construction, foundations, insulation, heating, basic mechanical systems, blue prints, and design. The students plan “building projects” and then construct them. Projects include storage sheds, garages, cottages and other structures. As well as being an excellent hobby, construction is a great way to express your creativity, to develop problem-solving skills, to become an educated consumer (buying and maintaining a home is one of the largest lifetime investments), to save money by doing it yourself, and to learn a trade.

SENIOR YEARS APPRENTICESHIP PROGRAM

High school credits are available for approved apprenticeship programs. Please see the office for more information.

