

# **Business Administration – Human Resources Program Standard**

The approved program standard for Business Administration – Human Resources program of instruction leading to an Ontario College Advanced Diploma delivered by Ontario Colleges of Applied Arts and Technology (MTCU funding code 60223)

Ministry of Training, Colleges and Universities August 2008

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# I. Introduction

This document is the Program Standard for the Business Administration- Human Resources program of instruction leading to an Ontario College Advanced Diploma delivered by Ontario colleges of applied arts and technology (MTCU funding code 60223).

# Development of System-Wide Program Standards

In 1993, the Government of Ontario initiated program standards development with the objectives of bringing a greater degree of consistency to college programming offered across the province, broadening the focus of college programs to ensure graduates have the skills to be flexible and to continue to learn and adapt, and providing public accountability for the quality and relevance of college programs.

The Program Standards and Evaluation Unit of the Ministry of Training, Colleges and Universities has responsibility for the development, review, and approval of system-wide standards for programs of instruction at Ontario colleges of applied arts and technology.

# **Program Standards**

Program standards apply to all similar programs of instruction offered by colleges across the province. Each program standard for a postsecondary program includes the following elements:

- **Vocational standard** (the vocationally specific learning outcomes which apply to the program of instruction in question);
- **Essential employability skills** (the essential employability skills learning outcomes which apply to all programs of instruction); and
- **General education requirement** (the requirement for general education in postsecondary programs of instruction).

Collectively, these elements outline the essential skills and knowledge that a student must reliably demonstrate in order to graduate from the program.

Individual colleges of applied arts and technology offering the program of instruction determine the specific program structure, delivery methods, and other curriculum matters to be used in assisting students to achieve the outcomes articulated in the standard. Individual colleges also determine whether additional local learning outcomes will be required to reflect specific local needs and/or interests.

# The Expression of Program Standards as Vocational Learning Outcomes

Vocational learning outcomes represent culminating demonstrations of learning and achievement. They are not simply a listing of discrete skills, nor broad statements of knowledge and comprehension. In addition, vocational learning outcomes are interrelated and cannot be viewed in isolation of one another. As such, they should be viewed as a comprehensive whole. They describe performances that demonstrate that significant integrated learning by graduates of the program has been achieved and verified.

Expressing standards as vocational learning outcomes ensures consistency in the outcomes for program graduates, while leaving to the discretion of individual colleges curriculum matters such as the specific program structure and delivery methods.

# The Presentation of the Vocational Learning Outcomes

The **vocational learning outcome** statements set out the culminating demonstration of learning and achievement that the student must reliably demonstrate before graduation.

The **elements of the performance** for each outcome define and clarify the level and quality of performance necessary to meet the requirements of the vocational learning outcome. However, it is the performance of the vocational learning outcome itself on which students are evaluated. The elements of performance are indicators of the means by which the student may proceed to satisfactory performance of the vocational learning outcome. The elements of performance do not stand alone but rather in reference to the vocational learning outcome of which they form a part.

# The Development of a Program Standard

In establishing the standards development initiative, the Government determined that all postsecondary programs of instruction should include vocational skills coupled with a broader set of essential skills. This combination is considered critical to ensuring that college graduates have the skills required to be successful both upon graduation from the college program and throughout their working and personal lives.

A program standard is developed through a broad consultation process involving a range of stakeholders with a direct interest in the program area, including employers, professional associations, universities, secondary schools, and program graduates working in the field, in addition to students, faculty, and administrators at the colleges themselves. It represents a consensus of participating stakeholders on the essential learning that all program graduates should have achieved.

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# Updating the Program Standard

The Ministry of Training, Colleges and Universities will undertake regular reviews of the vocational learning outcomes for this program to ensure that the Business Administration – Human Resources Program Standard remains appropriate and relevant to the needs of students and employers across the Province of Ontario. To confirm that this document is the most up-to-date release, contact the Ministry of Training, Colleges and Universities at the address or telephone number noted on the inside cover page.

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# **II. Vocational Standard**

All graduates of the Business Administration – Human Resources program of instruction must have achieved the 12 vocational learning outcomes listed in the following pages, in addition to achieving the essential employability skills learning outcomes and meeting the general education requirement.

#### Preamble

Graduates of Business Administration - Human Resources Programs carry out human resources functions within the domestic and international business environments. Graduates have therefore demonstrated achievement of vocational learning outcomes which relate to both business in general and human resources in particular.

Graduates of the Business Administration - Human Resources Programs are prepared to implement and evaluate plans for staffing, performance management\*, training, employee and labour relations, health and safety, and benefits and compensation administration functions. They are also able to apply communication, information technology, teamwork, leadership and organizational development\* strategies to support the human resources activities of an organization. In addition, graduates are able to contribute to a number of more complex functions supporting organizational effectiveness, including applying principles of financial analysis and control, collaborating in the design of an organization's human resources plan, and in the preparation of an organization's business plan. Graduates are prepared to contribute to the assessment, analysis, and solving of human resources problems.

Graduates of Business Administration - Human Resources Programs are employed in a broad range of private, public, and not-for-profit sectors of business and industry including manufacturers, retailers, banks and other financial institutions, medical facilities, government offices, human resources consulting firms, and other large and small businesses.

There are opportunities for graduates to pursue further educational qualifications; through articulation agreements between the colleges and universities, graduates may be granted credits towards a degree. Students should contact individual colleges for further details of a college's articulation agreements with universities and other degree granting institutions.

\*See Glossary

#### **Synopsis of the Vocational Learning Outcomes**

# Business Administration – Human Resources (Ontario College Advanced Diploma)

The graduate has reliably demonstrated the ability to

- 1. contribute to the planning and implementation of employee recruitment, selection, and retention strategies.
- 2. administer and facilitate the performance management\* program.
- 3. coordinate and support the development, implementation, and evaluation of employee orientation, training, and development programs.
- 4. implement and support effective employee and labour relations strategies in both non-union and union environments.
- 5. administer and communicate the organization's total compensation plan\*.
- 6. collaborate with others, in the implementation and monitoring of organizational health and safety policies and practices.
- 7. contribute to the identification of information needs and apply current and emerging information technologies to support the human resources function.
- 8. contribute to organizational development\* strategies aimed at promoting organizational effectiveness.
- 9. present and evaluate communication messages and processes related to the human resources function of the organization.
- 10. develop, implement, and evaluate personal professional development plans to achieve ongoing competence in human resources professional practice.
- 11. identify and communicate the human resources component of the organization's business plan.
- 12. contribute to the collection, analysis, and utilization of human resources data.

*Note:* The learning outcomes have been numbered as a point of reference; numbering does not imply prioritization, sequencing, nor weighting of significance.

<sup>\*</sup> See Glossary

#### **The Vocational Learning Outcomes**

**1.** *The graduate has reliably demonstrated the ability to* 

contribute to the planning and implementation of employee recruitment, selection, and retention strategies.

#### **Elements of the Performance**

- assist in environmental scans and acquire data related to demand and supply of human resources;
- identify competencies required for the position(s);
- track recruitment programs and identify potential internal and external sources for qualified applicants who are reflective of the community;
- implement outreach, access, and advertising strategies to attract qualified applicants;
- incorporate e-recruitment and other evolving technologies into the recruitment strategy;
- provide potential employees with all necessary information about the organization;
- convey the organization's brand\* in order to recruit suitable applicants;
- contribute to the development of selection processes and coordinate selection committees;
- support partnerships and relationships with agencies and institutions for the purpose of recruitment;
- use valid assessment tools to determine suitability of prospective employees in accordance with relevant labour and human rights laws, policies, and regulations;
- identify systems and processes that link the career plans and employee competencies with the current and future needs of the organization;
- use human resources information systems to contribute to human resources planning;
- implement strategies aimed at attracting and retaining qualified employees;
- maintain a global perspective on cultures and customs including qualifications of foreign credentialed applicants.

\* See Glossary

#### administer and facilitate the performance management\* program.

#### **Elements of the Performance**

- make recommendations to align the performance management\* program with the organization's strategic goals and direction;
- use job-related performance indicators that are relevant, reliable, and accurately reflect the employee's range of responsibilities;
- use valid quantifiable standards for performance evaluation;
- assist employees to align personal performance goals with the organization's strategic goals;
- communicate performance management\* processes to all organizational levels;
- administer performance management\* processes in accordance with relevant law and organizational policy;
- communicate performance interview format(s);
- identify appropriate personnel to be involved in performance management\* processes;
- advise and support supervisors and others in performance management\* policies and processes;
- assist employees in identifying career paths;
- identify resources available to assist in the development of strategies to improve individual employee performance;
- complete documentation necessary for performance management\* processes:
- identify and communicate appropriate follow-up (e.g., corrective action, wage increase, promotion, training, bonus);
- incorporate performance outcomes into human resources information system;
- implement a plan to evaluate the performance management\* program.

<sup>\*</sup> See Glossary

coordinate and support the development, implementation, and evaluation of employee orientation, training, and development programs.

#### **Elements of the Performance**

- coordinate and deliver employee orientations;
- provide employee orientation information that communicates and emulates the organizational culture;
- evaluate and recommend modifications to orientation programs to meet employee and employer needs;
- administer a training needs assessment;
- identify compliance related training in occupational health and safety, human rights, and related employment legislation;
- utilize job-related performance indicators that are relevant, reliable, and accurate;
- coordinate and deliver training sessions;
- identify internal and external training and development resources;
- apply adult learning principles to training and development sessions;
- select appropriate on and off-the-job training and development methods;
- create an engaging learning environment;
- use effective coaching and mentoring competencies;
- evaluate the effectiveness of training using quantitative and qualitative measures;
- determine performance gaps in the organization and determine if training is an appropriate solution;
- identify the role of training within change management and organizational development.

implement and support effective employee and labour relations strategies in both non-union and union environments.

#### **Elements of the Performance**

- contribute to a positive employee relations culture by assessing current programs and services and facilitating change;
- display empathy, cultural awareness, flexibility, tact, good judgment, and diplomacy in all interpersonal communications;
- act in a fair and impartial manner;
- use problem solving strategies to assess perceived grievances and resolve problems quickly;
- contribute to conflict resolution through mediation, conflict resolution, and alternate dispute resolution strategies within the framework of contract and policy interpretation;
- identify the perspectives of others, and use this information to facilitate the resolution of conflicts;
- maintain all employee records in a confidential manner and in accordance with current privacy legislation;
- implement, and monitor progressive and positive discipline strategies;
- implement workplace investigation processes;
- identify and implement best practices to support equality and diversity in the workplace;
- act in accordance with employment legislation and collective agreements;
- prepare appropriate, accurate documentation of negotiation and mediation processes;
- research and interpret case law.

administer and communicate the organization's total compensation plan\*.

#### **Elements of the Performance**

- collect and summarize data from salary and benefits surveys;
- contribute to the analysis and recommendations for the total compensation plan\*
  including salary, benefits, pension, and retirement plans that are most suited to
  employee needs and the organization's strategic goals;
- administer the total compensation plan\* in accordance with the organization's policies and procedures;
- administer the total compensation plan\* in accordance with relevant employment law (e.g., human rights, employment equity, pay equity), and collective agreements;
- implement employee incentive strategies consistent with organizational goals;
- use promotional materials and communication strategies to communicate the total compensation plan\*;
- respond to employee queries related to compensation entitlements in a discreet and confidential manner;
- implement audits of the effectiveness of the organization's total compensation plan\*.

\* See Glossary

collaborate with others, in the implementation and monitoring of organizational health and safety policies and practices.

#### **Elements of the Performance**

- identify industry best practices and contribute to the development of policies, procedures, and processes appropriate to the health and safety needs of the organization;
- implement accommodation strategies in accordance with current legislation;
- communicate health and safety information in accordance with applicable legislation;
- participate in and promote safety programs that contribute to employee well being beyond a compliance threshold;
- model injury prevention and safety practices;
- implement a disability management system including Early and Safe Return to Work (ESRTW), Second Injury Enhancement Funding (SIEF) plans, and the claims and case management processes;
- monitor the organization's compliance with the *Workplace Safety and Insurance Act*;
- liaise with insurance providers and Workplace Safety Insurance Board (WSIB) representatives regarding claims administration issues;
- identify health and safety issues and trends that may indicate a deficiency;
- communicate the health and safety responsibilities of employers, employees, and the role of the joint health and safety committee;
- research and access resources of safety organizations;
- administer wellness and Employee Assistance Plans (EAP) aimed at employee well being and organizational effectiveness;
- contribute to the development and communication of the organization's Emergency Preparedness Plan;
- conduct ongoing reviews of current health and safety policies and procedures, and make recommendations for change;
- ensure due diligence with respect to the organization's health and safety policies, practices, and legislative requirements.

contribute to the identification of information needs and apply current and emerging information technologies to support the human resources function.

#### **Elements of the Performance**

- use appropriate software to record and compile human resources information including statistical reports (e.g., staffing, performance ratings, wage information);
- select and use appropriate software to produce necessary human resources reports and other documents;
- identify and track changes in information technology relevant to human resources;
- implement safeguards, operating restrictions, and policies for all users of the human resources information system (HRIS);
- use collected human resources information for intended purposes only;
- collect appropriate human resource metrics, benchmarks, and indicators;
- assist in the identification and comparison of HRIS vendors and products;
- contribute to the assessment of human resource's informational technology requirements;
- collaborate with information technology professionals in adapting technology to meet the specific requirements of human resources;
- use information technology to enhance the efficiency and effectiveness of human resource functions within the organization.

contribute to organizational development\* strategies aimed at promoting organizational effectiveness.

#### **Elements of the Performance**

- assist in developing techniques to positively influence behaviours within an organization consistent with the organization's strategic goals;
- examine the interaction between the human resources function and other functional areas within the organization;
- implement and evaluate information sharing strategies among the functional areas of the organization;
- contribute to the development of policies and practices that are consistent with the organizational culture;
- contribute to the development, implementation, and evaluation of strategies designed to support employee engagement and motivation;
- establish and maintain effective working partnerships with line managers and staff;
- identify and communicate human resources strategic contribution to organizational goals;
- implement internal and external stakeholder feedback systems to inform organizational decision making;
- implement service-driven strategies to meet the needs of internal and external stakeholders:
- identify metrics as quality indicators of a service driven orientation;
- identify opportunities for organizational cross functional initiatives;
- implement strategies to maintain employee morale during organizational change;
- champion and facilitate human resources initiatives in the organization.

<sup>\*</sup> See Glossary

present and evaluate communication messages and processes related to the human resources function of the organization.

#### **Elements of the Performance**

- adapt communication style, method, and message to needs of diverse audiences;
- make effective oral presentations employing verbal and non verbal communication;
- integrate factual human resources references and research evidence into presentations and responses to questions;
- prepare written business correspondence including, memos, letters, agreements, and reports;
- research industry best practices and write policy and procedure documents in a clear and understandable manner;
- document human resources information precisely and accurately;
- use current communication technologies effectively and appropriately;
- use presentation skills to effectively convey information related to human resources functions;
- listen actively and effectively;
- influence people's behaviour through the use of effective oral and written communication;
- inspire others to achieve personal objectives and to contribute to organizational goals;
- evaluate human resources communication practices and make recommendations for improvements.

develop, implement, and evaluate personal professional development plans to achieve ongoing competence in human resources professional practice.

#### **Elements of the Performance**

- evaluate own strengths and weaknesses;
- engage in continuous learning and commit to professional practice;
- identify personal and professional development opportunities;
- create personal professional learning plans aligned with organizational goals;
- seek and utilize personal performance feedback to enhance professional practice;
- identify and track changes to legislation, practices, and case law through human resources workshops, periodicals and other literature review;
- maintain contact with others in the field through networking and participation in professional organizations;
- adhere to ethical guidelines, i.e., Canadian Council of Human Resources Associations (CCHRA) Code of Ethics;
- support and promote the development of the human resources field.

identify and communicate the human resources component of the organization's business plan.

#### **Elements of the Performance**

- identify the changing role of human resources in policy formulation and planning;
- act as a resource for all functional areas of the organization;
- describe the relationship between human resources and key areas of the organization, such as marketing, finance, and operations;
- apply the fundamentals of accounting and finance to the development of the human resources business plan;
- communicate the role of the human resources to the organization's strategic plan;
- communicate the value of human resource initiatives i.e., return on investment (ROI);
- contribute to the evaluation of human resources initiatives which support the organization's strategic goals.

12. The graduate has reliably demonstrated the ability to contribute to the collection, analysis, and utilization of human resources data.

#### **Elements of the Performance**

- collect, analyze, and report relevant human resources information;
- locate information and resources needed for research;
- interpret basic statistical analysis applied to human resources data;
- read and interpret trends and indicators in human resources data;
- contribute to human resources program audits to assess performance against policy expectations;
- administer surveys (e.g., opinion, climate, salary);
- benchmark human resources best practices.

### Glossary

**Brand** - the impression that the public shares about an organization; includes name, graphic representations (logo), profile, positioning, and reputation.

**Performance Management** - the integrated process by which an organization involves its employees in improving organizational effectiveness in the accomplishment of the organizations mission and strategic goals. Performance Management includes performance planning, monitoring employee performance, employee development, employee performance appraisal, and recognition.

**Organizational Development** – the planned, systematic process in which behavioral science principles and practices are used to improve organizational functioning and effectiveness.

**Total Compensation Plan** - what employees receive in exchange for their work, includes salary, benefits, incentives, and other performance based rewards.

# III. Essential Employability Skills

All graduates of the Business Administration – Human Resources program of instruction must have reliably demonstrated the essential employability skills learning outcomes listed on the following pages, in addition to achieving the vocational learning outcomes and meeting the general education requirement.

#### Context

Essential Employability Skills (EES) are skills that, regardless of a student's program or discipline, are critical for success in the workplace, in day-to-day living, and for lifelong learning.

The teaching and attainment of these EES for students in, and graduates from, Ontario's colleges of applied arts and technology are anchored in a set of three fundamental assumptions:

- these skills are important for every adult to function successfully in society today;
- our colleges are well equipped and well positioned to prepare graduates with these skills;
- these skills are equally valuable for all graduates, regardless of the level of their credential, whether they pursue a career path, or they pursue further education.

# Skill Categories

To capture these skills, the following six categories define the essential areas where graduates must demonstrate skills and knowledge.

- Communication
- Numeracy
- Critical Thinking & Problem Solving
- Information Management
- Interpersonal
- Personal

# Application and Implementation

In each of the six skill categories, there are a number of defining skills, or sub skills, identified to further articulate the requisite skills identified in the main skill categories. The following chart illustrates the relationship between the skill categories, the defining skills within the categories, and learning outcomes to be achieved by graduates from all postsecondary programs of instruction that lead to an Ontario College credential.

EES may be embedded in General Education or vocational courses, or developed through discrete courses. However these skills are developed, all graduates with Ontario College credentials must be able to reliably demonstrate the essential skills required in each of the six categories.

SKILL CATEGORY	DEFINING SKILLS: Skill areas to be demonstrated by graduates:	LEARNING OUTCOMES: The levels of achievement required by graduates. The graduate has reliably demonstrated the ability to:
COMMUNICATION	<ul> <li>Reading</li> <li>Writing</li> <li>Speaking</li> <li>Listening</li> <li>Presenting</li> <li>Visual literacy</li> </ul>	<ol> <li>communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.</li> <li>respond to written, spoken, or visual messages in a manner that ensures effective communication.</li> </ol>
NUMERACY	<ul> <li>Understanding and applying mathematical concepts and reasoning</li> <li>Analyzing and using numerical data</li> <li>Conceptualizing</li> </ul>	3. execute mathematical operations accurately.
CRITICAL THINKING & PROBLEM SOLVING	<ul> <li>Analysing</li> <li>Synthesising</li> <li>Evaluating</li> <li>Decision making</li> <li>Creative and innovative thinking</li> </ul>	<ul><li>4. apply a systematic approach to solve problems.</li><li>5. use a variety of thinking skills to anticipate and solve problems.</li></ul>

SKILL CATEGORY	DEFINING SKILLS: Skill areas to be demonstrated by graduates:	LEARNING OUTCOMES: The levels of achievement required by graduates. The graduate has reliably demonstrated the ability to:
INFORMATION MANAGEMENT	<ul> <li>Gathering and managing information</li> <li>Selecting and using appropriate tools and technology for a task or a project</li> <li>Computer literacy</li> <li>Internet skills</li> </ul>	<ul> <li>6. locate, select, organize, and document information using appropriate technology and information systems.</li> <li>7. analyze, evaluate, and apply relevant information from a variety of sources.</li> </ul>
INTERPERSONAL	<ul> <li>Team work</li> <li>Relationship management</li> <li>Conflict resolution</li> <li>Leadership</li> <li>Networking</li> </ul>	<ul> <li>8. show respect for the diverse opinions, values, belief systems, and contributions of others.</li> <li>9. interact with others in groups or teams in ways that contribute to effective working relationships and the achievement of goals.</li> </ul>
PERSONAL	<ul> <li>Managing self</li> <li>Managing change and being flexible and adaptable</li> <li>Engaging in reflective practices</li> <li>Demonstrating personal responsibility</li> </ul>	10. manage the use of time and other resources to complete projects. 11. take responsibility for one's own actions, decisions, and consequences.

# IV. General Education Requirement

All graduates of the Business Administration – Human Resources program must have met the general education requirement described on the following pages, in addition to achieving the vocational and essential employability skills learning outcomes.

# Requirement

The General Education Requirement for programs of instruction is stipulated in the Credentials Framework (Appendix A in the Minister's Binding Policy Directive *Framework for Programs of Instruction*).

In programs of instruction leading to either an Ontario College Diploma or an Ontario College Advanced Diploma, it is required that graduates have been engaged in learning that exposes them to at least one discipline outside their main field of study, and increases their awareness of the society and culture in which they live and work. This will typically be accomplished by students taking 3 to 5 courses (or the equivalent) designed discretely and separately from vocational learning opportunities.

This general education learning would normally be delivered using a combination of required and elective processes.

# Purpose

The purpose of General Education in the Ontario college system is to contribute to the development of citizens who are conscious of the diversity, complexity, and richness of the human experience; who are able to establish meaning through this consciousness; and, who, as a result, are able to contribute thoughtfully, creatively, and positively to the society in which they live and work.

General Education strengthens student's essential employability skills, such as critical analysis, problem solving, and communication, in the context of an exploration of topics with broad-based personal and/or societal importance.

#### Themes

The themes listed below will be used to provide direction to colleges in the development and identification of courses that are designed to fulfil the General Education Requirement for programs of instructions.

Each theme provides a statement of Rationale and offers suggestions related to more specific topic areas that could be explored within each area. These suggestions are neither prescriptive nor exhaustive. They are included to provide guidance regarding the nature and scope of content that would be judged as meeting the intent and overall goals of General Education.

#### 1. Arts in Society:

#### Rationale:

The capacity of a person to recognize and evaluate artistic and creative achievements is useful in many aspects of his/her life. Since artistic expression is a fundamentally human activity, which both reflects and anticipates developments in the larger culture, its study will enhance the student's cultural and self-awareness.

#### Content:

Courses in this area should provide students with an understanding of the importance of visual and creative arts in human affairs, of the artist's and writer's perceptions of the world and the means by which those perceptions are translated into the language of literature and artistic expression. They will also provide an appreciation of the aesthetic values used in examining works of art and possibly, a direct experience in expressing perceptions in an artistic medium.

#### 2. Civic Life:

#### Rationale:

In order for individuals to live responsibly and to reach their potential as individuals and as citizens of society, they need to understand the patterns of human relationships that underlie the orderly interactions of a society's various structural units. Informed people will have knowledge of the meaning of civic life in relation to diverse communities at the local, national, and global level, and an awareness of international issues and the effects of these on Canada, and Canada's place in the international community.

#### Content:

Courses in this area should provide students with an understanding of the meaning of freedoms, rights, and participation in community and public life, in addition to a working knowledge of the structure and function of various levels of government (municipal, provincial, national) in Canada and/or in an international context. They may also provide an historical understanding of major political issues affecting relations between the various levels of government in Canada and their constituents.

#### 3. Social and Cultural Understanding:

#### Rationale:

Knowledge of the patterns and precedents of the past provide the means for a person to gain an awareness of his or her place in contemporary culture and society. In addition to this awareness, students will acquire a sense of the main currents of their culture and that of other cultures over an extended period of time in order to link personal history to the broader study of culture.

#### Content:

Courses in this area are those that deal broadly with major social and cultural themes. These courses may also stress the nature and validity of historical evidence and the variety of historical interpretation of events. Courses will provide the students with a view and understanding of the impact of cultural, social, ethnic, or linguistic characteristics.

#### 4. Personal Understanding:

#### Rationale:

Educated people are equipped for life-long understanding and development of themselves as integrated physiological and psychological entities. They are aware of the ideal need to be fully functioning persons: mentally, physically, emotionally, socially, spiritually, and vocationally.

#### Content:

Courses in this area will focus on understanding the individual: his or her evolution; situation; relationship with others; place in the environment and universe; achievements and problems; and his or her meaning and purpose. They will also allow students the opportunity to study institutionalized human social behaviour in a systematic way. Courses fulfilling this requirement may be oriented to the study of the individual within a variety of contexts.

## 5. Science and Technology:

#### Rationale:

Matter and energy are universal concepts in science, forming a basis for understanding the interactions that occur in living and non-living systems in our universe. Study in this area provides an understanding of the behaviour of matter that provides a foundation for further scientific study and the creation of broader understanding about natural phenomena

Similarly, the various applications and developments in the area of technology have an increasing impact on all aspects of human endeavour and have numerous social, economic, and philosophical implications. For example, the operation of computers to process data at high speed has invoked an interaction between machines and the human mind that is unique in human history. This development and other technological developments have a powerful impact on how we deal with many of the complex questions in our society.

#### Content:

Courses in this area should stress scientific inquiry and deal with basic or fundamental questions of science rather than applied ones. They may be formulated from traditional basic courses in such areas of study as biology, chemistry, physics, astronomy, geology, or agriculture. As well, courses related to understanding the role and functions of computers (e.g., data management and information processing), and assorted computer-related technologies, should be offered in a non-applied manner to provide students with an opportunity to explore the impact of these concepts and practices on their lives.