

DIPLOMA

- Two years
- September start
- Corner Brook and Prince Philip Drive Campuses

Note: This program is formerly the Computer Support Specialist program

COURSES

CODE	TITLE	Hrs/wk		
		Cr	Le	La
Semester 1				
CM1400	Technical Report Writing I	3	3	0
MC1805	Software Applications	4	3	2
MA1520	Applied Mathematics for Computer Systems and Networking	3	3	1
CP1920	Computer Hardware and Troubleshooting I	4	3	2
CR1100	Network Fundamentals	4	3	2
CP3120	Command Line	3	2	2
SD1470	College, Career and Portfolio - Preparation Non Co-op	2	2	0
Semester 2				
CM1401	Technical Report Writing II	3	3	0
CP1360	Programming for Computer Systems Networking	4	3	2
CP1922	Computer Hardware and Troubleshooting II	4	3	3
CP1330	Windows Server Administration	4	3	3
CR1510	Web Site Development	3	2	3
CR1260	Client Service for the Computer Industry	2	2	1
Semester 3				
CR2510	Linux Server Administration I	3	2	3
CP1280	Windows Client	3	2	3
EP1130	Business for Information Systems	3	3	0
Semester 4				
CM2200	Oral Communications	2	2	0
CP1331	Advanced Windows Enterprise Server	3	2	3
CR2230	Microsoft Exchange Server	4	3	3
CP2730	Project Management and Analysis	3	2	2
CR2400	Internetworking	4	3	3
CR2511	Linux Server Administration II	3	2	3
Semester 5				
CR2900	Switching and VoIP	4	3	3
CR2950	Emerging Trends in IT Infrastructure	3	2	2
CR2240	Information Systems Security	4	3	2
CR2130	Enterprise Management using SMS	4	3	2
CR2970	Capstone Project	4	3	2
SD2410	Personal, Professional and Portfolio Development	2	2	1
Semester 6				
WT1185	Work Term	5	15	wks

INFORMATION TECHNOLOGY

Computer Systems and Networking

The Computer Systems and Networking two-year program focuses on the skills, competencies and attitudes required to research, design, install and maintain computer systems and network infrastructure in a highly available and secure computing environment. The program combines theoretical and practical learning experiences in a team-oriented setting encompassing front-line computer systems, back-end server environments and the local and wide-area network infrastructure.

The program includes course work, team-oriented projects, and a final 15-week work term focusing on areas of technical learning, team building, communications, interpersonal skills, ethics, and best practices. This diversity provides opportunities for the student to acquire the skills, professionalism and adaptability required to succeed in the dynamic and challenging field of Information Technology infrastructure support.

The student will create and maintain a career plan and learning portfolio throughout the program to provide the opportunity to continually assess skill development and create/adapt career plans that set personal expectations and professional goals.

The capstone project will enable the student to demonstrate the application of knowledge and skills developed throughout the program by performing an in-depth study of a problem, design, or technological application and fully documenting and presenting the findings.

OBJECTIVES

The aim of the Computer Systems and Networking program is to graduate a student with:

1. The theoretical and practical skills in information technology infrastructure support. This will enable her/him to:
 - a. Provide computer technical assistance, support, and advice to customers and other users.
 - b. Install, modify and repair computer hardware and software.
 - c. Support local-area networks (LAN), wide-area networks (WAN), network segments, and internet and intranet systems.
 - d. Design an organization's computer system in which all of the components including computers, the network, and software, work properly together.
 - e. Plan, coordinate, and implement the organization's information security policy.
2. The skills required to interpret and effectively apply industry procedures and policies in the workplace.
3. The social, interpersonal and communication skills necessary to be a productive member of a team in a software development environment.
4. The self-awareness and reflective skills required to create, evaluate and modify personal growth and career plans.

EMPLOYMENT OPPORTUNITIES

Given the presence of computer systems and networks in all industries, Computer Systems and Networking graduates may find employment in both the private and public sectors.

Graduates of the program will be able to fill roles in industry such as:

- Computer Support Specialist
- Network Specialist

- Computer Support Technician
- LAN Team Member
- I.T. Support Technician
- Help Desk Technician
- Server Support Analyst/Technician
- Help Desk Analyst
- Technology Support Analyst

ENTRANCE REQUIREMENTS

Comprehensive Arts and Science Certificate (College Transition program) with the following courses:

1. Math Fundamentals I and II

OR

High School Graduation Certificate with a 60% overall average in the following:

1. Language (1 credit) (minimum 60%) chosen from 3101, 3102, 3103, 3112, 3172, 3192, 4121

OR

English (2 credits) (minimum 60%) chosen from 3201, 3202, 3211, 3212, 3231, 3232, 3281, 3282, 3291, 3292

2. Mathematics (2 credits) chosen from:

Advanced: 3201, 3211, 3221, 3231, 3271, 3281, 3291, 4225 (50% minimum)

Academic: 3203, 3200, 3210, 3230, 3270, 3280, 3290 (60% minimum)

OR

Mathematics (4 credits) chosen from:

Advanced: 2205, 3205 (50% minimum in each course)

Academic: 2204, 3204 (50% minimum in 2204 and 60% minimum in 3204)

3. Additional credits at the 3000 level chosen from any of the remaining 3000 level courses offered in the Senior High School Program:

a. six credits at the 3000 level for those who complete a Language course

OR

b. five credits at the 3000 level for those who complete an English course,

OR

Grade XI Public Examination pass with a 60% average, including 60% in each of English and Mathematics (Matriculation) or, a pass in Mathematics (Honours).

OR

Adult Basic Education (Level III) Graduation including the following courses:

1. Communications IC3211, IC3112 plus ONE of IC3116, IC3215, IC3321, or IC3222

2. Mathematics from one of the following sections:

a. Mathematics IM3212, IM3213 and IM3216
b. IM3219

OR

Adult Basic Education Graduation (Level III) with Business-Related College Profile including the following courses:

1. English 3101A, 3101B, 3101C or 3102A, 3102B, 3102C
2. Mathematics 1104A, 1104B, 1104C, 2104A, 2104B, 2104C, 3104A, 3104B, 3104C

Applicants with Adult Basic Education (Level III) Graduation with a different Profile may be eligible for admission to the program provided the appropriate selection of courses including those outlined above have been completed.

OR

Persons 19 years of age or older who do not meet the entrance prerequisites for this program may be considered on an individual basis under the Mature Student Clause.