

# INFORMATION TECHNOLOGY

## TWO-YEAR PROGRAM

The purpose of the program is to train students in designing, installing and maintaining information systems. Students who successfully complete the program will have the technical knowledge to implement and fix hardware components, connect and maintain business applications, store and maintain databases and implement interfaces between various information systems. The program also includes related business courses.

Students will get the chance to learn these skills within a modern laboratory setting. Practical approaches ensure that students learn by experience. An excellent student-professor ratio enables constant communication between professors and students. This ratio maximizes learning and makes for a healthy learning environment.

The program uses the latest technology. Course titles represent the type of knowledge learned and not the product used. The program may then stay up to date as far as the technology used within the courses without having to rename courses every year. It provides for maximum flexibility to all involved.

The program looks to provide a healthy balance between the various flavours of products on the marketplace. Products from Microsoft, Accpac, Adobe, Macromedi, Cisco, Novell and Open Source community among others are used in the program. Students will get a feel for the various options available within the workplace. Constant communication between the program and the community ensures that the courses reflect the use of technology within the local marketplace.

In both years, students participate in a four-week workplace practicum. Co-operative work experience placements are available to qualifying students after the first year.

## EMPLOYMENT OPPORTUNITIES

- PC Technician
- Network Administrator
- Database Administrator
- Programmer
- Analyst
- Sales and Customer Service

## ENTRANCE REQUIREMENTS

Manitoba high school diploma (or equivalent) or mature student status (21 years of age and over)

Prerequisites: Français 40S or Français 40G  
English Language Arts 40S or 40G  
*One (1) of the following:*  
Mathematics 40S or 40G  
Applied Mathematics 40S  
Pre-calculus 40S

## FIRST YEAR

|        |  |
|--------|--|
| AI-104 | Employment Preparation Workshop I                |
| AN-001 | Non Credit English as a Second Language I<br>OR  |
| AN-106 | English as a Second Language I L (004.106)       |
| AN-002 | Non Credit English as a Second Language II<br>OR |
| AN-107 | English as a Second Language II L (004.107)      |
| CO-104 | Introduction to Accounting L                     |
| FR-106 | Français I L                                     |
| FR-107 | Français II L                                    |
| IG-101 | Introduction to Programming I L                  |
| IG-102 | Introduction to Programming II L                 |
| IG-105 | Software Applications I                          |
| IG-106 | Internet and Data Communications-client          |
| IG-107 | Mathematics for Computer Science                 |
| IG-108 | Databases  |
| IG-110 | Software Applications II                         |
| IG-111 | PC Configuration and Troubleshooting             |
| IG-112 | Network Management I                             |
| SP-101 | Work Experience I (4 weeks)<br>OR                |
| CP-101 | Co-operative Work Experience (4 months)          |

## SECOND YEAR

|        |   |
|--------|---|
| AI-201 | Employment Preparation Workshop II          |
| AN-102 | Business English and Communication I<br>OR  |
| AN-106 | English as a Second Language I L (004.106)  |
| AN-104 | Business English and Communication II<br>OR |
| AN-107 | English as a Second Language II L (004.107) |
| FR-204 | Communication orale                         |
| IG-201 | Internet and Data Communications-server     |
| IG-202 | Software Development I                      |
| IG-204 | Software Development II                     |
| IG-206 | Network Management II L                     |
| IG-207 | Multimedia                                  |
| IG-211 | Management of Computer Resources            |
| IG-212 | E-Commerce                                  |
| IG-213 | IT Security                                 |
| IG-214 | Emerging Technologies                       |
| SP-201 | Work Experience II (4 weeks)                |

## INFORMATION

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