

# Multidisciplinary Programs and University Wide Courses

## V. -B.A. MAJOR IN INFORMATION TECHNOLOGY

### Information Technology

Information Technology (IT) is defined by the Information Technology Association of America (ITAA), as the study, design, development, implementation, support or management of computer-based information systems, particularly software applications and computer hardware. IT deals with the use of electronic computers and computer software to convert, store, protect, manage, transmit and retrieve data, securely.

This program provides the necessary skills and knowledge to work/design/participate within organizations that manage large amount of data and provide services to a large number of users. Students will develop skills and knowledge in Information Technologies, Management practices and Organizations, with the required fundamentals of Computer Science [1]

### Core curriculum (33 credits):

|            |  |       |
|------------|--|-------|
| CSC 101lab | Foundations of Computer Science                | 4-3-3 |
| CSC 111lab | Programming Methodology                        | 4-3-3 |
| CSC 204ab  | Data Structures                                | 3-3-0 |
| CSC 207a   | Using and Designing Data Bases                 | 4-3-3 |
| CSC 214b   | Introduction to Networks                       | 3-3-0 |
| BCS 220a   | Management of Information Systems              | 3-3-0 |
| BHR 221ab  | Organizational Behaviour                       | 3-3-0 |
| BMA 140ab  | Statistical Analysis for Business Decisions I  | 3-3-0 |
| BMA141ab   | Statistical Analysis for Business Decisions II | 3-3-0 |
| BMG 112ab  | Introduction to Management Theory and Practice | 3-3-0 |
| ILT 100ab  | Information Literacy and Critical Thinking Lab | 1-0-1 |
|            | (1-credit lab - required with BMG 112)         |       |

### Secondary Core[2] (30 to 35 credits)

A minimum of 3 courses in Computer Science from the following list:

|         |                                  |       |
|---------|----------------------------------|-------|
| CSC 103 | Interactive Web Page Design      | 4-3-3 |
| CSC 107 | Databases and Dynamic Web Design | 4-3-3 |
| CSC 121 | Advanced Programming Techniques  | 4-3-0 |
| CSC 201 | Computer Ethics                  | 3-3-0 |
| CSC 205 | Data Mining for Scientists       | 4-3-3 |
| CSC 216 | Artificial Intelligence          | 3-3-3 |
| CSC 301 | Simulation Techniques            | 3-3-3 |
| CSC 304 | Project                          | 3-0-3 |
| CSC 310 | Software Engineering             | 3-3-3 |
| CSC 414 | Computer Networks                | 4-3-3 |
| CSC 417 | Database Software Design         | 3-3-0 |

[1] CEGEP students missing MAT103 and/or MAT203 will have MAT193 and/or MAT195 added to their program (up to 6 more credits).

[2] Students are advised to consult the calendar for prerequisites

A minimum of 3 courses in Business from the following list:

BAC 121 Principles of Accounting 3-3-0  
BAC 241 Systems and Control 3-3-0  
BCS 212 E-Commerce 3-3-0  
BCS 216 Managing Information Technology 3-3-0  
BCS 313 System Design and Development 3-3-0  
BCS 318 E-Business Applications 3-3-0  
BMK 211 Marketing Management 3-3-0  
BMK 371 Industrial Marketing Strategy 3-3-0  
BMS 303 Forecasting Techniques 3-3-0  
BMS 333 Purchasing Management 3-3-0  
BMS 231 Operations Management 3-3-0  
BMS 343 Computer Simulation 3-3-0  
BMS 332 Supply Chain Management 3-3-0

**Free electives (22 to 27 credits)**

The number of credits will depend on the courses selected in the secondary core.

**Required extra courses in a four-year program: (30 credits)**

MAT 193, MAT 195, a minimum of 6 credits of Humanities, including one course in English (ELA 116 or other) and another course in English, History, Classical Studies, Philosophy, Religion, Liberal Arts.