

Faculty of Business and IT

Enhanced Pathways Proposal

Bachelor of Information Technology (Honours) Program

October, 2011

Background

Following the University lead to develop innovative pathway opportunities for College graduates, the Faculty of Business and Information Technology proposes to expand the program for diploma students interested in pursuing an Information Technology degree.

The Faculty currently offers a successful and well recognized program for qualified college diploma students utilizing a 'bridge' of 5 required courses. Following satisfactory completion of the bridge courses, students enter directly into the third year of the Bachelor of Information Technology degree program.

A key basis for this proposal is to distinguish between 2 and 3 year qualified diploma programs. The proposal recognizes the much stronger technical and academic base received in a 3 year information technology or computer systems diploma program.

We believe the changes proposed will provide more opportunities for qualified College graduates and result in further growth of our pathways programs.

Proposal

This proposal is to enhance the current pathways with a 'direct entry' option for qualified students from an approved 3 year College program. Students who qualify would not be required to complete a bridge program.

Students would enter directly into a modified 3rd year of the Bachelor of Information Technology (Honours) Program with a Networking and Information Technology Security specialization. Students would receive a block transfer of 60 credit hours from their College program. A minimum of a 'B' average over the course of the College program would be required for acceptance consideration.

The outline below is modelled on Durham College's 3 year Computer Systems Technology diploma program which provides students a strong background in networking technologies and computer programming.

Similar to the UOIT degree program, the curriculum prepares students for the recognized certifications including CISCO (CCNA, CCNP, CCSP) and Microsoft (MCP, MCSE). Students would maintain their certification stream with entry into the UOIT degree program.

The direct entry pathways program will also be available to students from other Colleges with the same or similar 3 year diploma programs. These programs are currently being reviewed with a priority on GTA Colleges, which are the primary feeder schools.

Applicants from other Colleges will be reviewed on an individual basis until agreements are in place.

Program Map

Students would receive block transfer credit for the following 20 courses based on Durham College-UOIT course equivalencies.

COMM1050U Technical Communications
INFR 1010U Discrete Math
INFR 1100U Introduction to Programming
INFR 1411U Introduction to Networking
BUSI 1700U Introduction to Entrepreneurship
INFR 1421U Networking II
INFR 2140U Object Oriented Programming
BUSI 2550U Project Management
INFR 2411U Advanced Networking I
INFR 2810U Computer Architecture
INFR 2820U Algorithm and Data Structures
BUSI 3501U E-Business
INFR 2421U Advanced Networking II
INFR 2600U Introduction to Computer Security
INFR 2830U Operating Systems
INFR 3120U Web Programming
NFR 3810U Database Systems
3 General Electives

The UOIT third and fourth year program curriculum would follow the program map as outlined below (10 courses):

Bachelor of Information Technology Pathways Program

Networking and IT Security Specialization

Program Map (2012-2013)

Year-Sem.	Subject	Subject	Subject	Subject	Subject
3-1	BUSI 2205U Principles of Marketing	INFR 1550U Law & Ethics of IT	INFR 2820U Algorithms and Data Structures	General Elective	General Elective
3-2	BUSI 3501U eBusiness Technologies	INFR 1016U Introductory Calculus	INFR 2421U Advanced Networking II	INFR 2600U Introduction to Computer Security	INFR 2830U Operating Systems
4-1	BUSI 4995U UOIT Edge Capstone Study Project <i>Prereq Year 4 standing</i>	INFR 3600U Cryptography & Network Security <i>Prereq INFR 2600U</i>	INFR 3710U Signals and Random Processes <i>Prereq INFR 1016U</i>	INFR 4680U IT Security Policies and Procedures <i>Prereq BUSI 3501U</i>	General Elective
4-2	Technical Elective	INFR 3610U Operating System Security <i>Prereq INFR 2830U</i>	INFR 3720U Basics of Digital Transmission <i>Prereq INFR 3710U</i>	INFR 4660U Web Services and eBusiness Security <i>Prereq INFR 2820U</i>	General Elective