

SECTION 9: FACULTY OF BUSINESS AND INFORMATION TECHNOLOGY

Dean: Bernadette Schell, BA, MSc, PhD

Associate Dean: Wilfred Fong, BSc, MLIS

Director, Management Development Centre: Terry Y. S. Wu, BA, MA, PhD

Professors:

Raymond A.K. Cox, BS, BComm, MBA, PhD

Terry Y. S. Wu, BA, MA, PhD

Associate Professors:

John Friedlan, BSc, MBA, PhD, CA

William M. Goodman, BA, MA, PhD

Ali Grami, BSc, MEng, PhD, PEng

(Cross-appointment with the Faculty of Engineering and Applied Science)

Assistant Professors:

Cuiping Chen, BEng, MA, PhD

Khalil El-Khatib, BCompSc, MCompSc, PhD

Tripat Gill, BTech, MBA, PhD

Shahram S. Heydari, BEng, MEng, MAppSci, ABD

Patrick C.K. Hung, BSc, MPhil, MAsc, PhD

Ying (Annie) Jiang, BA, MPhil, PhD

Bill Kapralos, BSc, MSc, PhD

Salma Karray, BBA, MSc, PhD

Jing (Jill) Lei, BSc, MSc, PhD

Zhenfeng Ma, BA, MA, ABD

Clemens Martin, Dipl-Ing (Master), Dr-Ing (PhD)

(Cross-appointment with the Faculty of Engineering and Applied Science)

Jennifer Percival, Bmath, PhD

Miguel Vargas Martin, BCompSc, MEng, PhD

(Cross-appointment with the Faculty of Engineering and Applied Science)

Ying Zhu, BSc, MSc, PhD

Complementary Faculty:

Jane Bowen, BCom, CA

Angela Kellett, Bmath, MACctng, CA

Academic Advisors:

Aaron Mitchell, BBA

Christina Pearsall, BA

9.1 Degrees offered

Bachelor of Commerce (Honours) - BCom (Hons)

Bachelor of Information Technology (Honours) - BIT (Hons)

- Specialization in Game Development and Entrepreneurship
- Specialization in Networking
- Specialization in Information Technology Security

The Faculty of Business and Information Technology offers innovative degree programs in Commerce and Information Technology. By placing a strong emphasis on how technology can enhance business opportunities, students are prepared to launch successful careers in business and industry.

The faculty's research focuses in the areas of business process integration and management, risk management, international business, marketing, corporate governance, and information technology security. The faculty also promotes commercialization of technology.

A Master of Information Technology Security (MITS) program launched in the 2005-2006 academic year. Section 17 of this calendar provides information about the graduate programs offered at UOIT.

9.2 Program information - Bachelor of Commerce (Honours)

9.2.1 General information

The Bachelor of Commerce (Honours) degree prepares graduates with strong employability skills and the foundations for excellence in managing business corporations.

Organizations are examined from a number of perspectives, including how they are managed and the changing environments in which they operate. National and international contexts of business are explored, along with relevant issues facing managers in business, labour and the public sector.

Students receive extensive practice in applying theory to the processes of decision-making and problem-solving through computer-based exercises and simulations, case study analyses, problem-based learning activities and field-based projects.

Year two, the core year, is an introduction to each of the functional areas of business—accounting, e-commerce, finance, human resources, and marketing—and an examination of the ways in which these are integrated within an operation. In years three and four, students may choose to specialize in one or more functional areas, such as accounting, marketing, or e-commerce. In year four, students benefit from the UOIT Edge Capstone Study Project and Strategic Management courses.

These unique courses provide an opportunity to consolidate learning from earlier years of the program on the site of a partnering organization and under the supervision of both university faculty and the organization's management team. Instead of taking the UOIT Edge Capstone Study Project, qualified students may also enrol in the internship program as described in Section 9.2.3.

9.2.2 Admission requirements

Current Ontario secondary school students must complete the Ontario Secondary School Diploma (OSSD) with a minimum overall average of 70 percent on six 4U or 4M credits including English (ENG4U) and one math (MGA4U or MCB4U or MDM4U). All other applicants should refer to section 4.5 of this calendar for the requirements for their specific category of admission.

9.2.3 Field placement opportunities

This program offers students who have successfully completed all the requirements for the third year, including having achieved a cumulative 3.3 GPA (B+) average, an opportunity to engage in a contracted learning partnership with businesses in the Durham region or around the globe. The student secures an employer who meets the criteria as prescribed by the Faculty of Business and Information Technology. The internship program not only gives students an opportunity to apply classroom concepts to the challenges of organizational life, but also helps them to gain valuable and relevant work experience to promote networking and life-long career success. Participating employers are given the opportunity to bring the motivated learners, thinkers, and doers of tomorrow into their workplaces, as well as provide valuable mentoring to students.

The internship program placement equates to 560 hours of progressive business and management experience, on either a full-time or a part-time basis. The intern's wages (stipulated in a contract) are paid by the sponsoring business over a contracted period. Successful work placement completion and both a verbal and written final report will result in the intern receiving a mark and six credits toward the BCom (Hons) degree requirements.

9.2.4 Careers

Employment opportunities are well above average, with a range of career possibilities or continuation of studies at graduate school. High demand exists for accountants, auditors, financial investment analysts, information technology experts, market research analysts, marketing managers, advertising executives, e-commerce consultants, and e-marketing managers.

9.2.5 Degree requirements

To be eligible for the BCom (Hons) degree, students must successfully complete 120 credit hours, including all courses outlined below. For course descriptions, see section 16.

YEAR 1

Semester 1 (15 credit hours)

BUSI 1600U Management of the Enterprise
 BUSI 1830U Introduction to Programming
 BUSI 1900U Mathematical Foundations for Business
 ECON 2010U Microeconomics
 General elective*

Semester 2 (15 credit hours)

BUSI 1450U Statistics
 BUSI 1650U External Environment of Management
 BUSI 2000U Collaborative Leadership
 BUSI 2150U Financial Accounting I
 ECON 2020U Macroeconomics

YEAR 2

Semester 1 (15 credit hours)

BUSI 2160U Financial Accounting II
 BUSI 2201U Marketing I
 BUSI 2311U Organizational Behaviour
 BUSI 2401U Finance I
 BUSI 2603U Introduction to Operations Management

Semester 2 (15 credit hours)

BUSI 2170U Managerial Accounting
 BUSI 2202U Marketing II
 BUSI 2312U Introduction to Human Resources Management
 BUSI 2402U Finance II
 BUSI 2604U Introduction to Project Management and Supply Chain Management

YEAR 3

Semester 1 (15 credit hours)

BUSI 3040U Information Systems
 Business specialization elective
 Business specialization elective
 General elective*
 General elective*

Semester 2 (15 credit hours)

Business specialization elective*
 Business specialization elective*
 Business specialization elective
 General elective*
 General elective*

YEAR 4

Semester 1 (15 credit hours)

BUSI 4701U Strategic Management I
 BUSI 4991U UOIT Edge I - Capstone Study Project
 Business specialization elective*
 Business specialization elective*
 General elective*

Semester 2 (15 credit hours)

BUSI 4702U Strategic Management II
 BUSI 4992U UOIT Edge II - Capstone Study Project
 Business specialization elective* or
 General elective*
 Business specialization elective*
 General elective*

ELECTIVES*Business specialization electives**

Accounting: Intermediate Financial Accounting I (BUSI 3101U); Intermediate Financial Accounting II (BUSI 3102U); Advanced Taxation (BUSI 3120U); Advanced Managerial Accounting (BUSI 3160U); Auditing Standards and Applications (BUSI 3170U); Advanced Auditing (BUSI 3171U), Auditing Information Systems (BUSI 3172U), Introduction to Taxation (BUSI 3110U); Advanced Financial Accounting (BUSI 4101U); Contemporary Issues in Accounting (BUSI 4140U); Special Topics in Accounting (BUSI 4190U); Directed Independent Studies in Accounting (BUSI 4199U).

E-Commerce: E-Business Technologies (BUSI 2501U); E-Commerce (BUSI 2502U); E-Learning (BUSI 2504U); E-Recruitment and Human Resources Information Systems (BUSI 2505U); E-Marketing (BUSI 3503U); Internet Engineering (BUSI 3510U); Applied Internet Multimedia (BUSI 3520U); HTML and Website Design and Management (BUSI 3530U); Object Oriented Programming (BUSI 3540U); Server and Network Administration (BUSI 3570U); WWW Networking (BUSI 3580U); Special Project in E-Business and E-Commerce (BUSI 4590U); Directed Independent Studies in E-Business and E-Commerce (BUSI 4599U).

Marketing: Marketing Communications (BUSI 3200U); Consumer Behaviour (BUSI 3210U); Marketing Research (BUSI 3260U); Brand Management (BUSI 3280U); Electronic Commerce and Marketing (BUSI 4203U); Marketing Analysis (BUSI 4220U); Retail Marketing Strategies (BUSI 4240U); International Marketing (BUSI 4250U); Business to Business Marketing (BUSI 4270U); Special Topics in Marketing (BUSI 4290U); Directed Independent Studies in Marketing (BUSI 4299U).

Finance: Financial Statement Analysis (BUSI 3150U); Investment (BUSI 3405U); Financial Institutions (BUSI 3410U); Derivative Securities (BUSI 3450U); International Finance (BUSI 3408U); Portfolio and Investment Strategies (BUSI 4405U); Advanced Corporate Finance (BUSI 4410).

Human Resources: Recruiting and Selection (BUSI 3305U); Industrial and Labour Relations (BUSI 3312U); Negotiation Theory and Behaviour (BUSI 3315U); Conciliation and Dispute Resolution (BUSI 3315U); The Management of Change (BUSI 3330U); Human Resource Planning (BUSI 3340U); Developing Management Skills (BUSI 3350U); Health and Safety (BUSI 3360U); Employment and Labour Laws (BUSI 3370U); Compensation and Benefits (BUSI 3380U); Training and Development (BUSI 3390U); Special Topics In Organizational Behaviour and Human Resources Management (BUSI 4390U); Directed Independent Study in Organizational Behaviour and Human Resources Management (BUSI 4399U)

General electives

Students may select any non-Business course from any faculty, subject to credit restrictions. (See course descriptions in section 16).

9.3 Concentration in Accounting

The concentration in Accounting is designed for students interested in careers as professional accountants. The program will allow students to meet the course requirements of the three Canadian accounting professional designations: Chartered Accountant (CA), Certified Management Accountant (CMA), and Certified General Accountant (CGA). The program provides a heavy emphasis on accounting-related courses combined with broad coverage of the major business disciplines.

The following courses are offered to meet the requirements of the professional designations indicated:

Course	Title	CA ¹	CMA ⁴	CGA ^{6,7}
BUSI 1101U	Financial Accounting	√ ²	√ ⁵	√ ⁵
BUSI 1450U	Statistics		√	√
BUSI 2150U	Financial Accounting I	√	√	√
BUSI 2160U	Financial Accounting II	√	√	√
BUSI 2170U	Managerial Accounting	√	√	√
BUSI 3101U	Intermediate Financial Accounting I	√	√	√
BUSI 3102U	Intermediate Financial Accounting II	√	√	√
BUSI 3110U	Introduction to Taxation	√	√	√

BUSI 3120U	Advanced Taxation	√		√
BUSI 3160U	Advanced Managerial Accounting	√	√	
BUSI 3170U	Auditing Standards and Applications	√		√
BUSI 3171U	Advanced Auditing	√		√
BUSI 3172U	Auditing Information Systems	√		
BUSI 4101U	Advanced Financial Accounting	√	√	
BUSI 4140U	Contemporary Issues in Accounting	√ ³		√
BUSI 4190U	Special Topics in Accounting—Critical Thinking, Analysis and Decision Making	√ ³		
BUSI 3150U	Financial Statement Analysis	√ ³		
BUSI 2201U	Marketing I		√	
BUSI 2202U	Marketing II		√	
BUSI 2311U	Organizational Behaviour		√	
BUSI 2312U	Introduction to Human Resources Management		√	
BUSI 2401U	Finance I	√	√	√
BUSI 2402U	Finance II	√	√	√
BUSI 2603U	Introduction to Operations Management		√	√
BUSI 2604U	Intro to Project Management and Supply Chain Management		√	√
BUSI 2705U	Legal Environment of Business	√	√	√
BUSI 3040U	Information Systems	√	√	√
BUSI 3800U	International Business		√	
BUSI 4701U	Strategic Management I		√	
BUSI 4702U	Strategic Management II		√	
ECON 2010U	Microeconomics	√	√	√
ECON 2020U	Macroeconomics	√	√	√

¹ UOIT's accounting stream enables students to fulfil all 51 credit hours required by the Institute of Chartered Accountants of Ontario.

² Students in the UOIT Commerce Bridge program take BUSI 1101U instead of BUSI 2150U and BUSI 2160U. To meet the advanced accounting requirements and to obtain the necessary 51 credit hours required by the Institute of Chartered Accountants of Ontario, students who complete BUSI 1101U should take BUSI 4101U plus two of BUSI 3150U, BUSI 4140U, and BUSI 4190U.

³ To meet the advanced accounting requirements of the Institute of Chartered Accountants of Ontario, students in the Bachelor of Commerce program should take BUSI 4101U plus one of BUSI 3150U, BUSI 4140U, and BUSI 4190U. For students who complete BUSI 1101U instead of BUSI 2150U and BUSI 2160U, please see note 2 above.

⁴ UOIT's accounting stream enables students to complete the prerequisite courses for the CMA program and be eligible to write the CMA Entrance Examination in the year of graduation.

⁵ Students in the UOIT Commerce Bridge program take BUSI 1101U instead of BUSI 2150U and BUSI 2160U.

⁶ Other CGA requirements may be fulfilled by the completion of other UOIT courses. Please see the Faculty of Business and Information Technology for advice.

⁷ Some CGA courses are subject to a challenge exam by CGA Ontario. See CGA Ontario's transfer credit policies for more information.

9.4 Concentration in Marketing

The concentration in Marketing provides students with a rigorous training in the topics of consumer behaviour, marketing research, advertising, promotions, and strategy formulation in a dynamic marketing environment. The curriculum is designed to prepare students with the latest skills and perspectives essential for careers in marketing, advertising, sales management, product/brand management, retailing, e-marketing and marketing research. The use of technology (including simulations, internet exercises, projects and marketing software) is emphasized as a strong component of the different specialization courses in marketing.

The Bachelor of Commerce (Hons) degree with a concentration in Marketing requires a minimum of 27 credit hours in marketing courses. Students must complete six marketing core courses and a minimum of three elective marketing courses, chosen from the ones described below.

Marketing core courses:

Required of all students with a specialization in Marketing

- BUSI 2201U Marketing I
- BUSI 2202U Marketing II
- BUSI 2503U E-Marketing
- BUSI 3210U Consumer Behaviour
- BUSI 3260U Marketing Research
- BUSI 4220U Marketing Strategy

Marketing electives:

A minimum of three elective courses in marketing must be chosen from the following (the courses listed below are tentative and subject to review):

- BUSI 3200U Marketing Communications
- BUSI 3280U Brand Management
- BUSI 3220U Sales Management
- BUSI 3250U Service Marketing
- BUSI 4203U Advertising Management
- BUSI 4240U Retail Management
- BUSI 4250U International Marketing
- BUSI 4270U Business to Business Marketing
- BUSI 4290U Special Topics in Marketing
- BUSI 4299U Directed Independent Study in Marketing

9.5 Program information - Commerce Bridge program

9.5.1 General information

The Commerce Bridge provides students with the opportunity to apply the diploma or degree they have already earned toward a Bachelor of Commerce (Honours) degree at UOIT.

Students enrolled in the Commerce Bridge can complete five bridge courses in one semester of study (dependent on minimum enrolment). Upon successful completion of the bridge program with a cumulative B average (3.0 GPA) or better, students may apply directly to the third year of the Bachelor of Commerce (Honours) degree at UOIT.

9.5.2 Admission requirements

To qualify for the Commerce Bridge program, students must have a minimum of any two-year college diploma with a cumulative A average (85-100 percent) or better; or any three-year university degree with a cumulative B average (73 percent) or better.

9.5.3 Bridge completion requirements

Graduates of business programs

- BUSI 1101U Financial Accounting
- BUSI 2170U Managerial Accounting
- BUSI 2401U Finance I
- BUSI 2402U Finance II
- General elective

Graduates of non-business programs

- BUSI 1101U Financial Accounting
- BUSI 2170U Managerial Accounting
- BUSI 2401U Finance I
- BUSI 2402U Finance II
- BUSI 1450U Statistics

9.6 Program information - Bachelor of Information Technology (Honours)

9.6.1 General information

The information technology (IT) profession requires university graduates who have the necessary education and skills to work in the fast-paced world of IT. UOIT's Bachelor of Information Technology (Honours) degree offers three specializations, including Game Development and Entrepreneurship, Information Technology Security, and Networking. Each specialization provides students with the knowledge and skills to be successful in the IT field.

9.6.2 Admission requirements

See section 9.2.2.

9.6.3 Field placement opportunities

An internship program is currently under development for implementation in the summer of 2008. The program is designed to offer students who have successfully completed all the requirements of the first three years of the information technology program with an opportunity to engage in a contracted learning partnership with businesses in the Durham region and around the globe.

An internship placement equates to 560 hours of progressive experience, on either a full-time or a part-time basis. Successful work placement completion and final report submission will result in the intern receiving a mark and six credits toward the BIT (Hons) degree requirements.

Admission to the internship program is competitive and applicants must have a minimum cumulative 3.3 GPA (B+) average to be eligible.

9.6.4 Careers

Graduates from the Game Development and Entrepreneurship specialization are prepared for all roles in the game development field and are equipped with the knowledge required to launch their own game development enterprise.

The specializations in both Information Technology Security and Networking prepare students for management, supervisory or specialist roles as information security officers, network administrators, technical support managers, IT trainers, database managers, custom PC application developers, and many other careers.

The Bachelor of Information Technology (Honours) prepares graduates for a variety of post-graduate opportunities.

9.6.5 Program details and degree requirements

9.6.5.1 Program details - Game Development and Entrepreneurship

Designed to provide students with a wide range of game design and programming expertise, the Bachelor of Information Technology (Honours) offers this specialization in Game Development and Entrepreneurship. Students are introduced to game technology and theory, and to the artistic and creative side of game development. The program is unique in that it emphasizes entrepreneurship. Students acquire knowledge in the areas of business and management and develop entrepreneurial skills. Graduates will have the knowledge and skill set to be successful in the game industry, as employees or as entrepreneurs in charge of developing and managing their own gaming businesses.

YEAR 1

Semester 1 (15 credit hours)

INFR 1010U Discrete Mathematics
INFR 1300U Creative Writing and Narrative Concepts
INFR 1310U Drawing I
INFR 1500U Information Technology
General elective

Semester 2 (15 credit hours)

BUSI 1450U Statistics
BUSI 1700U Introduction to Entrepreneurship
BUSI 2000U Collaborative Leadership
INFR 1100U Introduction to Programming
INFR 1320U Graphic Design

YEAR 2

Semester 1 (15 credit hours)

BUSI 2205U Marketing in the Information Technology Sector
INFR 1350U Imaging I
INFR 2140U Object Oriented Programming
INFR 2310U Drawing II (Animation)
General elective

Semester 2 (15 credit hours)

INFR 2330U Game World I
INFR 2350U Imaging II (Graphic Data Processing)
INFR 2370U Sound and Audio
INFR 2550U Information Technology Project Management
General elective

YEAR 3

Semester 1 (15 credit hours)

BUSI 2120U Accounting for IT
BUSI 2700U Entrepreneurial Finance
INFR 2810U Computer Architecture
INFR 3110U Game Programming
INFR 3310U Animation Arts

Semester 2 (15 credit hours)

INFR 3320U Filmmaking
INFR 3330U Game World II
INFR 3340U Modelling and Rigging I
INFR 3830U Distributing Computing
General elective

YEAR 4

Semester 1 (15 credit hours)

BUSI 3750U Advanced Entrepreneurship
BUSI 4991U UOIT Edge I - Capstone Study Project
INFR 4310U Internet Gaming Development
INFR 4320U Artificial Intelligence for Simulations and Gaming
General elective

Semester 2 (15 credit hours)

BUSI 4992U UOIT Edge II - Capstone Study Project
INFR 4340U Game Production and Documentation
INFR 4350U Immersive Environments, Virtual Reality
INFR 4390U Design Studio
General elective

9.6.5.2 Program details - Information Technology Security

There has never been a greater need for professionals trained in network security. The BIT (Hons) specialization in Information Technology Security provides students with a background in networking and security. The coursework prepares graduates to manage the continuing changes and challenges of the IT security profession.

YEAR 1

Semester 1 (15 credit hours)

EDUC 1050U Technical Communications
INFR 1010U Discrete Mathematics
INFR 1410U Networking Basics, Routers and Routing Basics
INFR 1500U Information Technology
General elective

Semester 2 (15 credit hours)

BUSI 1450U Statistics
BUSI 1700U Introduction to Entrepreneurship
BUSI 2000U Collaborative Leadership
INFR 1100U Introduction to Programming
INFR 1420U Switching Basics, Intermediate Routing and WAN Technologies

YEAR 2

Semester 1 (15 credit hours)

INFR 2140U Object Oriented Programming
INFR 2470U CISCO Security I: Fundamentals of Network Security
INFR 2570U Cybercrime
INFR 2810U Computer Architecture
General elective

Semester 2 (15 credit hours)

INFR 2480U CISCO Security II: Network Security
INFR 2550U Information Technology Project Management
INFR 2610U OS Security I: Windows
INFR 2830U Operating Systems
General elective

YEAR 3

Semester 1 (15 credit hours)

INFR 2620U OS Security II: Unix
INFR 3120U Web Programming
INFR 3710U Signals and Random Processes
INFR 3810U Database Systems
General elective

Semester 2 (15 credit hours)

BUSI 2501U E-Business Technologies
INFR 3720U Basics of Digital Transmission
INFR 3850U Enterprise Network Management
INFR 4550U Law and Ethics of IT
General elective

YEAR 4

Semester 1 (15 credit hours)

BUSI 4991U UOIT Edge I - Capstone Study Project
INFR 4620U Emerging IT Security Technologies
INFR 4630U Malware Worms and Viruses
INFR 4750U Advanced Communications Networks
General elective

Semester 2 (15 credit hours)

BUSI 4992U UOIT Edge II - Capstone Study Project
INFR 4640U Web Services Security
INFR 4650U VPN and Data Privacy
INFR 4660U E-Business Security
INFR 4680U IT Security Policies and Procedures

9.6.5.3 Program details - Networking

Computer networking has become an integral part of today's business environment. The specialization in Networking prepares graduates with knowledge and skills in planning, designing, installing, operating, and managing information technology infrastructure. The core curriculum includes mandatory courses in business and management, providing students with the necessary business background to make significant contributions in today's workplace. This program also prepares graduates for all three levels of the Cisco certification program, namely, Cisco Certified Network Associate (CCNA®), Cisco Certified Network Professional (CCNP®), and Cisco Certified Internetwork Expert (CCIE®).

YEAR 1

Semester 1 (15 credit hours)

EDUC 1050U Technical Communications
INFR 1010U Discrete Mathematics
INFR 1410U Networking Basics, Routers and Routing Basics
INFR 1500U Information Technology
General elective

Semester 2 (15 credit hours)

BUSI 1450U Statistics
BUSI 1700U Introduction to Entrepreneurship
BUSI 2000U Collaborative Leadership
INFR 1100U Introduction to Programming
INFR 1420U Switching Basics, Intermediate Routing and WAN Technologies

YEAR 2

Semester 1 (15 credit hours)

BUSI 2205U Marketing in the Information Technology Sector
INFR 2140U Object Oriented Programming
INFR 2410U Advanced Routing and Remote Access
INFR 2810U Computer Architecture
General elective

Semester 2 (15 credit hours)

INFR 2420U Multilayer Switching
INFR 2550U Information Technology Project Management
INFR 2820U Algorithms and Data Structures
INFR 2830U Operating Systems
General elective

YEAR 3

Semester 1 (15 credit hours)

INFR 2430U Network Troubleshooting
INFR 3120U Web Programming
INFR 3710U Signals and Random Processes
INFR 3810U Database Systems
General elective

Semester 2 (15 credit hours)

BUSI 2501U E-Business Technologies
INFR 3720U Basics of Digital Transmission
INFR 3850U Enterprise Network Management
INFR 4410U Routing/Switching and Service Providers
General elective

YEAR 4

Semester 1 (15 credit hours)

BUSI 4991U UOIT Edge I - Capstone Study Project
INFR 3730U Multimedia Systems
INFR 4420U Security
INFR 4750U Advanced Communication Networks
General elective

Semester 2 (15 credit hours)

BUSI 4992U UOIT Edge II - Capstone Study Project
INFR 4430U Voice
INFR 4550U Law and Ethics of IT
INFR 4610U IT Security
INFR 4760U Network Performance Analysis