Items approved by Education Council
November 6, 2008

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**Business and Commercial Aviation Programs**

**Business Administration**

**BUAD 290 – 3 – 3 Introduction to Merchandising**

**New Course**

**Course Calendar Description:**
This course introduces students to current issues in the retail economy and in society that affect the different merchandising approaches used by retailers. By directly observing merchandising strategies and discussing the underlying causes of those strategies, students will understand the need for different approaches to achieve financial results and satisfying customer needs. (3,0,0)

**Prerequisite:** none

**Rationale:**
Each year Business recruiters attend high schools on their recruiting visits and receive numerous inquiries about program offerings in the field of fashion and retail merchandising. Not having specialized courses in this area hampers potential and current students in their search for career alternatives. As well, many potential employers ask about courses and employee development in the fashion and retail merchandising area. A review of offerings at other institutions, and discussions with different retailers in the region indicate that this employment career segment is vastly underdeveloped and there is an untapped market for development of such programs in Western Canada.

While the current OC Business program offers a general Retailing course, no specific courses exist in the fashion and merchandising area. The development of this course and two others will expand the elective choices for students in the Marketing option. Combined with the already existing Retailing course, the four-course grouping will provide a unique specialization within the Marketing option of Business Administration. The addition of these courses will both attract more students to the program and make graduates of the program more career ready when entering the field.

The Introduction to Merchandising course will enable students who are thinking of pursuing a career in the merchandising area to gain direct exposure to the many different forms of retailing used by different retailers.

**Proposed date of implementation:** September 2009
Costs: already funded – new FTEs

BUAD 291 – 3 – 3  Designing the Retail Environment
New Course
Course Calendar Description:
This course focuses on the theory and application of retail site location and design elements needing consideration in the setting up of retail stores and store layouts. Emphasis will be on factors used in analysis of the trading area and site selection as well as the concepts involved in interior and exterior retail outlet design. (3,0,0)
Prerequisite: BUAD 116
Rationale: Each year Business recruiters attend high schools on their recruiting visits and receive numerous inquiries about program offerings in the field of fashion and retail merchandising. Not having specialized courses in this area hampers potential and current students in their search for career alternatives. As well, many potential employers ask about courses and employee development in the fashion and retail merchandising area. A review of offerings at other institutions, and discussions with different retailers in the region indicate that this employment career segment is vastly underdeveloped and there is an untapped market for development of such programs in Western Canada.

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Proposed date of implementation: September 2009
Costs: already funded – new FTEs

BUAD 292 – 3 – 3  Merchandise Display Strategy
New Course
Course Calendar Description:
Planning, managing, and displaying fashion and merchandise in a variety of retail business environments is integral to retail sales. This course emphasizes planning, management, and evaluation display strategies used by retailers for effectively presenting and promoting their merchandise. (3,0,0)
Prerequisite: BUAD 116
Rationale:
Each year Business recruiters attend high schools on their recruiting visits and receive numerous inquiries about program offerings in the field of fashion and retail merchandising. Not having specialized courses in this area hampers potential and current students in their search for career alternatives. As well, many potential employers ask about courses and employee development in the fashion and retail merchandising area. A review of offerings at other institutions, and discussions with different retailers in the region indicate that this employment career segment is vastly underdeveloped and there is an untapped market for development of such programs in Western Canada.

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Merchandising Display Strategy is the study of the strategies involved in merchandise selection, set up and display location. Retailers such as Costco and Sport Chek have noted that 80% of their sales come from impulse buying by the consumer. Currently, the marketing option has no course that focuses on this area of promotion and the effective strategies and techniques needed to attract and influence in-store purchases.

**Proposed date of implementation:** Sept 2009

**Costs:** already funded – new FTEs

**CPRC – Science Technology and Health programs**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 111</td>
<td>3 – 7</td>
<td>Principles of Chemistry</td>
</tr>
<tr>
<td>CHEM 112</td>
<td>3 – 7</td>
<td>Introduction to Chemistry I</td>
</tr>
<tr>
<td>CHEM 115</td>
<td>3 – 7</td>
<td>Introduction to Chemistry for Water Quality Technology I</td>
</tr>
<tr>
<td>CHEM 121</td>
<td>3 – 7</td>
<td>Principles of Chemistry II</td>
</tr>
<tr>
<td>CHEM 122</td>
<td>3 – 7</td>
<td>Introduction to Chemistry II</td>
</tr>
<tr>
<td>CHEM 125</td>
<td>3 – 7</td>
<td>Introduction to Chemistry for Water Quality Technology II</td>
</tr>
</tbody>
</table>

**Course Revision**

**Changes:**
- Contact hours format

**Course Calendar Description:**
Change of contact hours from (3,3,1) to (4,3,0).

**Prerequisite:**
No changes

**Rationale:**
The Chemistry course content requires four lecture hours per week. The calendar description gives the lecture/lab/seminar designation as (3,3,1). However, these courses have normally been taught in a (4,3,0) format. These course revisions change the format to reflect the way the courses are taught.

**Proposed date of implementation:** September 2009

**Costs:** none

**NTEN 219 – 3 – 5.5 Linux Server Management**

**New Course**

**Course Calendar Description:**
This course builds on the concepts introduced in NTEN 127 with specific emphasis on open source operating systems and tools. Students will study installation and configuration of servers, user and file management, performance tuning, backup and recovery. (3, 2.5, 0)

**Prerequisite:** NTEN 127

**Rationale:**
Increasing growth of Linux deployments in industry means that graduates of the NTEN program need to have a more extensive skill set with Linux servers. Currently, the program teaches all aspects of LAN management in a single course, including various server operating systems. The volume of material needing to be covered now exceeds the time constraints of a single course.

**Proposed date of implementation:** September 2009

**Costs:** none

**NTEN 116 – 2 – 42 Basic Electricity and Electronics**

**Course Revisions:**
- Course Content
- Contact hours

**Course Calendar Description:**
A fundamental analysis of resistive and reactive electrical circuits under DC and AC excitation, and an introduction to semiconductor devices and their applications is included in this course. Labs will provide verification and theory. Students will build and test circuits using standard components and instruments. (21,21,0)

This course is offered six hours per day after the winter semester final exam period.

Prerequisite:

Rationale:
As the Network and Telecommunications industry changes, the content taught in this course has become less critical to the success of the program’s graduates. By moving the course to the post-semester time slot, the hours are reduced slightly, reflecting the lesser role of this content. As well, the move facilitates adding new content to the program that has become more prominent in industry.

Proposed date of implementation: September 2009

Costs: None

NTEN 199 – 2 – 42 Topics in Internetworking

Course Revisions:
- Prerequisite – add NTEN 117 as a prerequisite

Course Calendar Description:
No change

Rationale:
Currently this course has no prerequisite. The original expectation was that students would take this course after completing their first year of studies. Unfortunately, students who failed key course work were still able to take the course even though they lacked sufficient skills to be successful. (21,21,0)

Proposed date of implementation: September 2009

Costs: None

Network and Telecommunications Engineering Technology

Program Revisions:
- Addition or deletion of courses
- Resequecing of courses
- Graduation requirements

Program Calendar Description:
No change

Rationale:
This program revision addresses sequencing to maintain alignment with the course flow with the Computer Information Systems diploma and degree programs. It also improves commonality between the programs in the first semester, better facilitating the transfer of students between programs after one semester. In addition, one course is removed, one course is shortened and one course is added to address changes in current trends in skills requirements from industry. Finally, this revision allows students more flexibility in obtaining credit for relevant coursework.

Graduation Requirements:
The content from the short course COSC 110 is being incorporated into a new full course, NTEN 219, as this topic area is becoming more prevalent in the networking industry. As a result, COSC 110 is removed from the graduation requirements list and NTEN 219 is added.

Program summary

<table>
<thead>
<tr>
<th>Current Program</th>
<th>Proposed Program</th>
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</thead>
<tbody>
<tr>
<td>Semester One</td>
<td>Semester One</td>
</tr>
<tr>
<td>NTEN 111 Computer Components and Peripherals</td>
<td>NTEN 111 Computer Components and Peripherals</td>
</tr>
<tr>
<td>NTEN 113 Voice and Data Communications Infrastructure</td>
<td>NTEN 113 Voice and Data Communications Infrastructure</td>
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<tr>
<td>NTEN 116 Basic Electricity and Electronics</td>
<td>CMNS 113 Technical Communication for Information Technology</td>
</tr>
<tr>
<td>Semester Two</td>
<td>Year Two</td>
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<tr>
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<tr>
<td>NTEN 126 Basic Digital Circuits and Microprocessors</td>
<td>NTEN 126 Basic Digital Circuits and Microprocessors</td>
</tr>
<tr>
<td>NTEN 127 Local Area Network Management</td>
<td>NTEN 127 Local Area Network Management</td>
</tr>
<tr>
<td>NTEN 137 Routing and Switching I Structures</td>
<td>NTEN 137 Routing and Switching I Structures</td>
</tr>
<tr>
<td>MATH 251 Introduction to Discrete Structures</td>
<td>MATH 251 Introduction to Discrete Structures</td>
</tr>
<tr>
<td>CMNS 113 Technical Communication for Information Technology Elective (3 credits)</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester Three</th>
<th>Year Three</th>
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</thead>
<tbody>
<tr>
<td>NTEN 216 Data Communications</td>
<td>NTEN 216 Data Communications</td>
</tr>
<tr>
<td>NTEN 217 Routing and Switching II</td>
<td>NTEN 217 Routing and Switching II</td>
</tr>
<tr>
<td>BUAD 231 Project Management for NTEN</td>
<td>BUAD 231 Project Management for NTEN</td>
</tr>
<tr>
<td>CMNS 123 Analysis and Reporting for Information Technology Electives (6 credits)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester Four</th>
<th>Year Four</th>
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<tbody>
<tr>
<td>NTEN 225 Internetwork Security I Telecommunication I</td>
<td>NTEN 225 Internetwork Security I Telecommunication I</td>
</tr>
<tr>
<td>NTEN 227 Advanced Network Project Electives (9 credits)</td>
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</tr>
</tbody>
</table>

18 credits of electives are included in the program. 12 of these credits must be technical electives selected from the list below and 6 of these credits must be business administration (BUAD) electives selected from the list below.

Technical Electives
- NTEN 124 Desktop Applications and Programming
- NTEN 214 Database Development
- NTEN 215 Intranet Technologies I
- NTEN 218 Client and Server Security
- NTEN 221 Fundamentals of Wireless Networking
- NTEN 222 IP Telephony
- COSC 121 Computer Programming II
- COSC 126 System Analysis and Design
- COSC 131 Visual Programming I
- COSC 211 Machine Architecture
- COSC 219 Client-Side Web Systems
- COSC 220 Software Evaluation and Selection
- COSC 222 Computer Data Structures

18 credits of electives are included in the program. 12 of these credits must be NTEN courses, ELEN courses, or COSC courses eligible for credit in the Bachelor of Computer Information Systems (BCIS) program. COSC 115, COSC 122 and COSC 127 are not eligible for credit towards the NTEN diploma.

6 of these credits must be either Business Administration (BUAD) courses eligible for credit in the Bachelor of Business Administration (BBA) program or Communication (CMNS) courses. BUAD 128 is not eligible for credit towards the NTEN diploma.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>COSC 229</td>
<td>Computer Graphics</td>
</tr>
<tr>
<td>COSC 304</td>
<td>Introduction to Database Management Systems</td>
</tr>
<tr>
<td>ELEN 216</td>
<td>Programming and Interfacing II</td>
</tr>
<tr>
<td>ELEN 226</td>
<td>Programming and Interfacing III</td>
</tr>
<tr>
<td></td>
<td><strong>Business Administration Electives</strong></td>
</tr>
<tr>
<td>BUAD 111</td>
<td>Financial Accounting</td>
</tr>
<tr>
<td>BUAD 116</td>
<td>Marketing</td>
</tr>
<tr>
<td>BUAD 123</td>
<td>Management Principles</td>
</tr>
<tr>
<td>BUAD 201</td>
<td>Conflict Resolution and Negotiation</td>
</tr>
<tr>
<td>BUAD 232</td>
<td>E-Commerce for NTEN</td>
</tr>
<tr>
<td>BUAD 251</td>
<td>Personal Financial Planning</td>
</tr>
<tr>
<td>BUAD 283</td>
<td>Management Information Systems</td>
</tr>
<tr>
<td>BUAD 335</td>
<td>Electronic Commerce</td>
</tr>
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<td></td>
<td><strong>Communication Electives</strong></td>
</tr>
<tr>
<td>CMNS 220</td>
<td>Writing in the Digital Workplace</td>
</tr>
<tr>
<td>CMNS 230</td>
<td>Communications and Culture</td>
</tr>
<tr>
<td>CMNS 240</td>
<td>The Culture of Television</td>
</tr>
</tbody>
</table>

**Proposed date of Implementation:** September 2009  
**Costs:** none

### COSC 221 – 3 – 4
*Introduction to Discrete Structures*

**Course revision**
**Changes:**
- Contact hours format

**Course Calendar Description:**
Change of contact hours from (3,0,1) to (4,0,0)

**Rationale:**
The calendar description gives the lecture/lab/seminar designation as (3,0,1). However, these courses have been taught in a (4,0,0) format. This course revision changes the format to reflect the way the course is taught.

**Proposed date of implementation:** September 2009  
**Costs:** none

### COSC 224 – 3 – 6.5
*Projects in Computer Science*

**Course revision**
**Changes:**
- Contact hours – change from (3,3,1*) to (3,3,1)

**Course Calendar Description:**
No change

**Rationale:**
In this course, students develop a large project. At present, they meet in alternate weeks with the professor to discuss their progress. This coarse-grained reporting allows students to get behind in their work. By changing the meetings to weekly, we anticipate that students will produce better work.

**Proposed date of implementation:** January 2009  
**Costs:** none
COSC 318 – 3 – 5  Advanced Computer Networks
Course revision
Changes:
- Course title – from Advanced Computer Networks to Network Programming
- Course description
- Prerequisites
Course calendar description:
This course covers various related topics in client-server application development. Main topics include socket programming, data encryption and compression. (3,2,0)
Prerequisites:

<table>
<thead>
<tr>
<th>List course prerequisite(s)</th>
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</tr>
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<tbody>
<tr>
<td>Minimum grade of 60% in both COSC 118 and COSC 222</td>
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<td></td>
</tr>
</tbody>
</table>

Rationale:
To provide a title and course description which clarify the content of the course. To alter the prerequisites to allow NTEN graduates entry to the course.
Proposed date of implementation: January 2009
Costs: none

COSC 328 – 3 – 5  TCP/IP Networking
Course revision
Changes:
- Course title – from TCP/IP Networking to Linux Networking
- Course description
- Course content
- Prerequisites
Course calendar description:
This course focuses on various network services available in the Linux operating system. Topics include IP addressing (IPv4 and IPv6), subnetting and supernetting, file sharing and printing, domain name services, dynamic host configuration protocol, secured remote access and administration, virtual private networks, email, routing services, firewalls and system security. (3,2,0)
Prerequisites:

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</table>

Rationale:
To provide a title and course description which clarify the content of the course. To alter the prerequisites to allow NTEN graduates entry to the course.
Proposed date of implementation: January 2009
Costs: none