

Fanshawe College

## FIRST: Fanshawe Innovation, Research, Scholarship, Teaching

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Documentation (Approvals etc...)

Computer Systems Technician

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2011

### CTY1 CTN2 Curriculum Modification for 2012-13

Fanshawe College

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# PROGRAM/CURRICULUM "RATIONALE FOR CHANGES"

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DEC 01 2011

REGISTRAR

All requests for changes to programs of instruction must be submitted to the Registrar's Office by December 1st each year for changes to be implemented for the following September intake. All changes require the approval of the Dean and possibly the VPA's Office, if significant.

REMINDER: We need to ensure that changes are made properly and in a timely manner to: maximize student success; optimize employment preparation; meet all quality and integrity responsibilities to MTCU, PQAPA and our Board of Governors; and meet community expectations.

- ↳ The **Program/Curriculum "Rationale for Changes"** should be completed using this template and all areas must be completed. An electronic copy of this document should be submitted to the Registrar's Office.
- ↳ The Dean/Chair responsible for the program should consult with other affected schools and obtain the appropriate sign-offs on a paper copy of this document. Once all consultations and sign-offs have occurred, the paper copy should be submitted to the RO
- ↳ Course Request Forms must also be submitted electronically to Strategy and Planning for all new courses. These will be forwarded to Scheduling following approval of the changes by the Dean and possibly the VPA's Office.

## 1.0 Program Requiring Changes

|                         |                             |  |
|-------------------------|-----------------------------|--|
| Program Title:          | Computer Systems Technology |  |
| Program Alpha & Number: | CTY1 / CTN2                 |  |
| Effective Catalog Year: | 20123                       |  |

*Please answer each of the questions below, if applicable. Missing or incomplete information may delay approval and/or implementation of the proposed changes.*

## 2.0 Rationale for Changes

### 2.01 Provide a brief description of the reasons for the proposed changes.

In order to provide students with a broader knowledge upon graduation it was decided to remove the System and Network streams and create a single list of mandatory courses for Levels 5 and 6. In this process several courses were merged. This allows for very little concepts to be removed. The changes will also bring the program in line with employer expectations, as the streams were not identified on a diploma or transcript.

### 2.02 Students

- Are changes a response to student feedback? Or our Programs Data Report - Weak Factors? (summarize how changes address this issue)

NO, the changes are in a request from the chair in efforts to lower the number of courses and teaching hours required to offer Levels 5 and 6. Current Stream selection has produced unbalance class sizes based on student stream selection. However; Student feedback to the change has been very positive as students in the past have struggled to select one path, where they would prefer to take both.

- How will changes affect student learning and success? (describe evidence to support this)

Combining the two streams will allow students to graduate with knowledge in both systems and networking. This will open more job opportunities for them.

- How will changes affect cost of the program for students? (e.g., materials fees; equipment fees - laptop program; OSAP implications)

There will be no change to the cost of the program.

- How will changes affect the flow of the program?

The only change is that students will no longer have to select a stream in Level 5 and 6 of the program. They will all be enrolled in the same control courses for the terms.

#### 2.03 Relationship of Program to Industry

- How do changes reflect trends in the field or in industry? (Provide data regarding industry and/or professional trends.)

#### 2.04 Program Learning Outcomes

- How do the changes align with Ministry outcomes? (Provide a copy of the completed program map indicating gaps/overlaps that are being corrected)

There are no changes that affect alignment with Ministry outcomes as both streams already had meet the outcome requirements for the program.

#### 2.05 Relationships with Other Fanshawe College Programs

- Is this course in a laddered program or part of any other Fanshawe College program?

NO

#### 2.06 Relations with Other Post-Secondary Programs

- How will the changes affect transfer agreements with other post-secondary institutions?
- What discussions have been initiated with these institutions regarding the changes?

Will not affect articulations agreements that are in place.

#### 2.07 Changes on Fit of Program with general College Requirements for Programs

- How do changes affect the fit of the program with the College's strategic plan, program mix, general education requirements, marketing?

Marketing will have to quickly update the Web site to ensure new students are aware that the streams have been eliminated.

- Are changes consistent with Colleges policies/practices? (Identify specific areas where policies/practices need to be altered if program changes approved.)

YES

### 3.0 Consultation Regarding Proposed Changes

#### 3.01 Consultation With Program Advisory Committee

- Indicate feedback from the program advisory committee regarding the changes.

Yes and it was supported

3.02 Consultation With Other Programs/Schools/Services

- What programs/schools/services have been consulted?
- What feedback and suggestions have been offered through consultation?

N/A

4.0 Resource Implications of Proposed Changes

4.01 Staffing

- Outline all staffing consequences, both for the program and related areas.

Staffing requirements for the program will be lowered as there will be a reduction in teaching contact hours.

4.02 Services

- Outline all consequences on other areas.

4.03 Space or Technology Requirements

- Outline how changes affect space and/or technology requirements.

Lab equipment will need to be increased to reflect one class with all students in the program rather than only the students that selected the stream. While the impact is significant it will allow more accurate planning for future needs.

4.04 Budgetary Implications

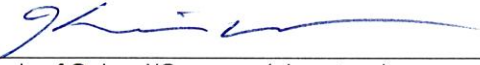
- Outline budgetary implications (include consequences on other schools such as increase/decrease in teaching hours required)
- Outline changes to materials fees.

With only a single stream teaching hours will be reduced. There will be a total TCH reduction of 5 hours in level 6, and a total TCH reduction of 7 hours in level 6.


**Approvals: Chair of School and Dean of Faculty; possibly VPA's Office, if significant**

Approved

Not Approved / Requires Changes

  
Chair of School/Campus (signature)

Nov. 29/11  
Date

  
Dean of Faculty (signature)

Nov. 30, 2011  
Date

Chair of Servicing School, if required (signature)

Date

Vice-President, Academic, if required (signature)

Date



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Degree Audit Report

Catalog: 2012/2013

Program: CTY1

Name: Computer Systems Technology

Department: ITY - Information Technology

Academic Level: PS

CCD: 9 - 6AcadSem/1800-2100hrs

Grade Scheme: LG2

Major: CTY1 - Computer Systems Technology

Div: ITY - Information Technology Division

Co-Op Indicator: Mandatory Co-op

Academic Program Requirement

Total Credits: 121.00

Residency Reqmt: 31.00

GPA Requirement: 2.000

Residency Reqmt GPA: 2.000

Minimum Grade: D

Academic Requirement: CTY1.12 Computer Systems Technology

Major: CTY1

Grade Scheme: LG2

Minimum GPA: 2.000

Minimum Grade:

Subrequirement: Level 1

Take all of the following Mandatory Courses:

Group 1

|           |   | Total Hours | Total Credits | GE |
|-----------|---|-------------|---------------|----|
| BUSI-1060 | Strategies for Success                  | 15.00       | 1.00          |    |
| INFO-1135 | Networking Fundamentals-CCNA            | 75.00       | 5.00          |    |
| INFO-1150 | Programming Fundamentals                | 75.00       | 5.00          |    |
| INFO-1119 | Operating Systems&Hardware Fundamentals | 45.00       | 3.00          |    |
| INFO-1120 | Database Fundamentals                   | 45.00       | 3.00          |    |

Group 2

TAKE WRIT-1043 OR WRIT-1034

|           |                           | Total Hours | Total Credits | GE |
|-----------|---------------------------|-------------|---------------|----|
| WRIT-1043 | Reason & Writing 1 for IT | 45.00       | 3.00          |    |
| WRIT-1034 | Reason & Writing 1 - EAP  | 60.00       | 4.00          |    |

Subrequirement: Level 2

Take all of the following Mandatory Courses:

|                      |   | Total Hours      | Total Credits   | GE            |
|----------------------|---|------------------|-----------------|---------------|
| <del>BUSI-1005</del> | <del>Introduction to Business Processes</del> | <del>45.00</del> | <del>3.00</del> | <del>**</del> |
| INFO-3065            | Hardware 2                                    | 45.00            | 3.00            |               |
| INFO-3092            | LAN Switching & Wireless-CCNA                 | 75.00            | 5.00            |               |
| INFO-1123            | Windows Active Directory                      | 45.00            | 3.00            |               |
| INFO-1125            | Linux Operating Systems                       | 45.00            | 3.00            |               |
| MGMT-3052            | Understanding Workplace Behaviours            | 45.00            | 3.00            | **            |

Add: INFO-1167 Business at the Speed of Light 45.00 3.00\*\*

Subrequirement: Level 3

Take all of the following Mandatory Courses:

|           |                            | Total Hours | Total Credits | GE |
|-----------|----------------------------|-------------|---------------|----|
| INFO-1124 | Computer Security Concepts | 45.00       | 3.00          |    |
| INFO-3101 | Windows Mail & Web Servers | 45.00       | 3.00          |    |

**Degree Audit Report**

|           |                                    |       |      |
|-----------|------------------------------------|-------|------|
| INFO-3014 | Database Servers                   | 45.00 | 3.00 |
| INFO-3075 | Windows Network Services           | 45.00 | 3.00 |
| INFO-3100 | Routing Protocols-CCNA             | 75.00 | 5.00 |
| COMM-3047 | Communication for IT Professionals | 45.00 | 3.00 |

**Subrequirement: Level 4**

Gen Ed - Take a 3 credit General Education elective course

Take all of the following Mandatory Courses:

|           |  | <b>Total Hours</b> | <b>Total Credits</b> | <b>GE</b> |
|-----------|--|--------------------|----------------------|-----------|
| INFO-3098 | Security: Vulnerabilities                | 45.00              | 3.00                 |           |
| INFO-3102 | Windows System Services                  | 45.00              | 3.00                 |           |
| INFO-3103 | Linux Operating Systems-Inter            | 45.00              | 3.00                 |           |
| INFO-5084 | WAN Technologies-CCNA                    | 75.00              | 5.00                 |           |
| MGMT-3036 | Professional Development-Career Planning | 45.00              | 3.00                 |           |

**Subrequirement: Level 5**

Take all of the following Mandatory Courses:

|           |                                      | <b>Total Hours</b> | <b>Total Credits</b> | <b>GE</b> |
|-----------|--------------------------------------|--------------------|----------------------|-----------|
| INFO-5011 | Managing Technical Projects          | 45.00              | 3.00                 |           |
| INFO-3094 | Security: Firewalls                  | 45.00              | 3.00                 |           |
| INFO-5070 | Windows System Administration        | 45.00              | 3.00                 |           |
| INFO-3099 | Scripting for Systems Administration | 45.00              | 3.00                 |           |

**Subrequirement: Level 6**

Gen Ed - Take a 3 credit General Education elective course

Take all of the following Mandatory Courses:

|           |                                       | <b>Total Hours</b> | <b>Total Credits</b> | <b>GE</b> |
|-----------|---------------------------------------|--------------------|----------------------|-----------|
| FINA-3039 | Budgeting & Financial Issues          | 45.00              | 3.00                 |           |
| INFO-5088 | Hacker Techniques-Advanced & Exploits | 45.00              | 3.00                 |           |
| INFO-5065 | Applied Technical Projects            | 60.00              | 4.00                 |           |

**Subrequirement: Add'l Req-Electives**

Take 1 of the following groups:

Normally taken in Levels 5 and 6

Group 1

|           |                              | <b>Total Hours</b> | <b>Total Credits</b> | <b>GE</b> |
|-----------|------------------------------|--------------------|----------------------|-----------|
| INFO-5081 | Advanced Routing-CCNP        | 60.00              | 4.00                 |           |
| INFO-5082 | Multilayer Switching-CCNP    | 60.00              | 4.00                 |           |
| INFO-5089 | Networking Technologies-Adv  | 60.00              | 4.00                 |           |
| INFO-5090 | Network Troubleshooting-CCNP | 60.00              | 4.00                 |           |

Group 2

|           |                               | <b>Total Hours</b> | <b>Total Credits</b> | <b>GE</b> |
|-----------|-------------------------------|--------------------|----------------------|-----------|
| INFO-5071 | Linux Operating Systems-Adv   | 60.00              | 4.00                 |           |
| INFO-5093 | Virtualization                | 60.00              | 4.00                 |           |
| INFO-5091 | Data Management & Storage-Adv | 60.00              | 4.00                 |           |
| INFO-5092 | Mobile Technologies           | 60.00              | 4.00                 |           |

*See attached sheet for Level 5 and Level 6 courses ~ Required Electives removed*

**Subrequirement: Gen Ed - Electives**

Take 6 General Education credits -

Normally taken in Levels 4 and 6

## Degree Audit Report

Catalog: 2012/2013

Program #: CTY1

Name: Computer Systems Technology

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### Subrequirement: Level 5

Take all of the following Mandatory Courses:

|           |  | <b>Total<br/>Hours</b> | <b>Total<br/>Credits</b> | <b>GE</b> |
|-----------|--|------------------------|--------------------------|-----------|
| INFO-3094 | Security: Firewalls                      | 45.00                  | 3.00                     |           |
| INFO-5081 | Advanced Routing-CCNP                    | 60.00                  | 4.00                     |           |
| INFO-5082 | Multilayer Switching-CCNP                | 60.00                  | 4.00                     |           |
| INFO-5096 | Managing & Budgeting Technical Projects  | 45.00                  | 3.00                     |           |
| INFO-5097 | Windows System Adm & Mobile Technologies | 60.00                  | 4.00                     |           |
| INFO-5098 | Virtualization & Data Management         | 75.00                  | 4.00                     |           |

### Subrequirement: Level 6

Gen Ed - Take a 3 credit General Education elective course

Take all of the following Mandatory Courses:

|           |                                      | <b>Total<br/>Hours</b> | <b>Total<br/>Credits</b> |  |
|-----------|--------------------------------------|------------------------|--------------------------|--|
| INFO-3099 | Scripting for Systems Administration | 45.00                  | 3.00                     |  |
| INFO-5071 | Linux Operating Systems-Adv          | 60.00                  | 4.00                     |  |
| INFO-5090 | Networking Troubleshooting-CCNP      | 60.00                  | 4.00                     |  |
| INFO-5099 | Voice over IP & QoS                  | 60.00                  | 4.00                     |  |
| INFO-5105 | Applied Technical Projects           | 90.00                  | 6.00                     |  |
|           |                                      |                        | + GE                     |  |

**Degree Audit Report**

Students Must Complete a Minimum of 31 of the Program  
Credits at Fanshawe to meet the Residency Requirement and  
Graduate from this Program.

[Signature]  
Approved By Chair/Manager:

[Signature]  
Approved by Dean:

[Signature]  
General Education Approved By(as appropriate):

FTY Nov. 28/11  
Department and Date:

Nov. 30, 2011  
Date:

Dec 1/11  
Date:

[Signature]  
Dec 19/11



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Degree Audit Report

Catalog: 2012/2013

Program: CTN2
Department: ITY - Information Technology
Academic Level: PS
CCD: 8 - 4AcadSem/1200-1400hrs

Name: Computer Systems Technician

Grade Scheme: LG2
Major: CTN2 - Computer Systems Technician
Co-Op Indicator: N/A

Div: ITY - Information Technology Division

Academic Program Requirement

Total Credits: 80.00
GPA Requirement: 2.000
Minimum Grade: D
Residency Reqmt: 20.00
Residency Reqmt GPA: 2.000

Academic Requirement: CTN2.12 Computer Systems Technician

Major: CTN2
Grade Scheme: LG2
Minimum GPA: 2.000
Minimum Grade:

Subrequirement: Level 1

Take all of the following Mandatory Courses:
Group 1

Table with 3 columns: Course ID, Course Name, and GE Credits. Rows include BUSI-1060, INFO-1135, INFO-1150, INFO-1119, and INFO-1120.

Group 2

TAKE WRIT-1043 OR WRIT-1034

Table with 3 columns: Course ID, Course Name, and GE Credits. Rows include WRIT-1043 and WRIT-1034.

Subrequirement: Level 2

Take all of the following Mandatory Courses:

Table with 3 columns: Course ID, Course Name, and GE Credits. Includes handwritten 'Delete' next to BUSI-1005 and 'Add: INFO-1167 Business at the Speed of Light' next to INFO-1167.

Subrequirement: Level 3

Take all of the following Mandatory Courses:

Table with 3 columns: Course ID, Course Name, and GE Credits. Row includes INFO-3014 Database Servers.

**Degree Audit Report**

|           |                                    |       |      |
|-----------|------------------------------------|-------|------|
| INFO-1124 | Computer Security Concepts         | 45.00 | 3.00 |
| INFO-3101 | Windows Mail & Web Servers         | 45.00 | 3.00 |
| INFO-3075 | Windows Network Services           | 45.00 | 3.00 |
| INFO-3100 | Routing Protocols-CCNA             | 75.00 | 5.00 |
| COMM-3047 | Communication for IT Professionals | 45.00 | 3.00 |

**Subrequirement: Level 4**

Gen Ed - Take a 3 credit General Education elective course

Take all of the following Mandatory Courses:

|           |  | <b>Total<br/>Hours</b> | <b>Total<br/>Credits</b> | <b>GE</b> |
|-----------|--|------------------------|--------------------------|-----------|
| INFO-3098 | Security: Vulnerabilities                | 45.00                  | 3.00                     |           |
| INFO-3102 | Windows System Services                  | 45.00                  | 3.00                     |           |
| INFO-3103 | Linux Operating Systems-Inter            | 45.00                  | 3.00                     |           |
| INFO-5084 | WAN Technologies-CCNA                    | 75.00                  | 5.00                     |           |
| MGMT-3036 | Professional Development-Career Planning | 45.00                  | 3.00                     |           |


**Subrequirement: Gen Ed - Electives**

Take 3 General Education Credits -  
Normally taken in Level 4

**Subrequirement: Check Residency**

Students Must Complete a Minimum of 20 of the Program  
Credits at Fanshawe to meet the Residency Requirement and  
Graduate from this Program.

  
Approved By Chair/Manager:

  
Approved by Dean:

  
General Education Approved By(as appropriate):

*ITC Nov. 29/11*  
Department and Date:

*NOV-30, 2011*  
Date:

*Dec 1/11*  
Date:

*428  
Dec 19/11*