# MY COLLEGE MY FUTURE 

## Course Documentation Outline

School of Business, Biosciences and Justice Studies

## SECTION I

1. Program (s): Environmental, Chemical, Bio-Food and Bio-Technology
2. Course Name: Math 2/ Computer Applications
3. Course Code: Math1004 4.Credit Value: 4
4. Course Hours: 4

| Class | Lab | Field | Other | Total |
| :--- | :--- | :--- | :--- | :--- |
| 28 | 28 |  |  | 56 |

5. Prerequisites/Corequisites/Equivalent Courses

| PR/CO/EQ | Course Code | Title |
| :--- | :--- | :--- |
| Math1003 |  |  |

6. Faculty: Ron Ford Date: Nov. 2008 Effective Date: Jan. 2010
7. Dean Approval: Dan Holland

Date: December 2009
9. Revision Number:

Date:
Effective Date:

10: Notes: Passing grade is $\mathbf{6 0 \%}$.

## Section II

11. Calendar Description: Engineering and scientific applications involving the following areas are covered: determinants, exponents, logarithms, and special graphing techniques. Microsoft EXCEL will be used to generate statistical reports and graphs.
12. Provincial Context:

This course meets the following Ministry of Education and Training requirements:

## a). Prior Learning Assessment (PLA)

Students may apply to receive credit by demonstrating achievement of the course learning outcomes through previous life and work experiences.

This course is eligible for challenge through the following method(s) indicated by *

| Challenge Exam | Portfolio | Interview | Other | Not Eligible |
| :--- | :--- | :--- | :--- | :--- |
| Final theoretical exam and final <br> computer assignment. |  |  |  |  |

## PLAR Contact:

13. Employability Skills emphasized in this course

|  | communication - written |  | communication - visual |  | communication - oral |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $x$ | analytical |  | creative thinking |  | decision making |
|  | interpersonal | x | numeracy | x | organizational |
| x | problem solving | x | technological |  | other (specify) |

14. Required Texts, Materials, Resources or Technical Materials Required:

Washington, Allyn J. Basic Technical Math with Calculus ( $8^{\text {th }}$ edition, Metric Version) Addison Wesley Longman
Scientific calculator capable of linear regression.
15. Evaluation Plan

Students will demonstrate learning in the following ways:

| Assignment Description | Evaluation Methodology |  | Due Date |
| :---: | :---: | :---: | :---: |
| Systems of Linear Equations and Exponential Functions. | Test 1 | 15\% | Feb. 10 |
| Logarithmic functions and Regression. | Test 2 | 15\% | Apr. 5 |
| Excel generated reports and graphs. | 2\% eac |  | Weekly |
| Final computer assignment |  | 15\% | TBA |
| Final comprehensive exam |  | 30\% | TBA |

16.Other:

Loyalist College has a Violence Prevention policy:

- All College members have a responsibility to foster a climate of respect and safety, free from violent behaviour and harassment.
- Violence (e.g. physical violence, threatening actions or harassment) is not, in any way, acceptable behaviour.
- Weapons or replicas of weapons are not permitted on Loyalist College property.
- Unacceptable behaviour will result in disciplinary action or appropriate sanctions.
- More information can be found in the "Student Manual and Guide - Rights \& Responsibilities".


## Section III

17. Curriculum Delivery, Learning Plan and Learning Outcomes:

| COURSE COMPONENTS <br> and CONTENT | RELATED LEARNING <br> OBJECTIVES and EVALUATION <br> CRITERIA | LEARNING ACTIVITIES <br> and RESOURCES |
| :--- | :--- | :--- |
| Systems of Linear Equations and <br> Determinants. | Solve systems of two linear equations <br> and three linear equations by <br> determinants. | Chapter 5 <br> Excel in the Computer Lab |
| Exponential and logarithmic <br> functions | Employ calculators to resolve <br> exponential and logarithmic functions. <br> Define properties of natural and base <br> 10 logarithms. <br> Solve exponential and logarithmic <br> equations. <br> Demonstrate graphing on logarithmic <br> and semi-logarithmic paper. | Chapter 13 <br> Excel in the Computer Lab |
| TEST 1 |  |  |

