Department of Mathematics & Statistics Concordia University

ACTU 386 Actuarial Math Lab II Winter 2018

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Introduction to Excel (5 weeks) – 40% of the overall score for the course

Excel				
Introduction to the Basic Concepts	Move, Copy and	Find and Replace functions	VBA – User defined	
Relative to a Pension Plan	Edit methods	Sort functions	functions	
	Window Options	Subtotal functions	Iterative functions	
 Types of pension plans 	Undo function	AutoFilter functions	Comments	
Normal Cost	Help functions	Pivot Table functions	Data Form functions	
Actuarial Liability	Creating a chart	Protection features	Audit functions	
Excel Environment	Formatting a chart	Control objects	Error messages	
Commonly Used functions	Functions related to	Functions related to text	Others actuarial uses of	
Lookup functions	dates		Excel	

Introduction to Access (4 weeks) – 30% of the overall score for the course

Access				
Access Environment	Creating Forms	Keeping the information	Pages and Modules	
Creating a database	Sort and Filter	accurate		
Editing a table	functions	Reports		
Getting info in and out of a	Queries	Sharing the database		
database	SQL queries	Security		

Introduction to Axis (4 weeks) – 30% of the overall score for the course

Axis		
Introduction to the basic concepts relative to life	Introduce the concept of modules, datasets	
insurance	Learn how to navigate within AXIS	
	Describe the concepts of Funds, Subfunds and Cells	
 Definition of life insurance 	Describe the mechanics of a cell	
 Different types of coverage available 	Learn to use certain functionalities: overrides, filters,	
term vs Whole life	etc	
 universal vs. traditional 	Work through a case study of how Axis can be used	
 lapse supported product 	to price a simple life insurance plan.	

Evaluation: Assignments 100%

Academic Integrity and the Academic Code of Conduct

This course is governed by Concordia University's policies on Academic Integrity and the Academic Code of Conduct as set forth in the Undergraduate Calendar and the Graduate Calendar. Students are expected to familiarize themselves with these policies and conduct themselves accordingly. "Concordia University has several resources available to students to better understand and uphold academic integrity. Concordia's website on academic integrity can be found at the following address, which also includes links to each Faculty and the School of Graduate Studies: <u>concordia.ca/students/academic-integrity</u>." [Undergraduate Calendar, Sec 17.10.2]