

ACTU 386
 Actuarial Math Lab II
 Winter 2016

Instructor: _____

Office/Tel.: _____

Office Hours: _____

Course: The course is divided in 3 sections:
 - Introduction to Excel (30% of the overall score for the course)
 - Introduction to Axis (40% of the overall score for the course)
 - Introduction to Access (30% of the overall score for the course)

Introduction to Excel (4 weeks)

Excel			
Introduction to the Basic Concepts Relative to a Pension Plan <ul style="list-style-type: none"> • Types of pension plans • Normal Cost • Actuarial Liability 	Move, Copy and Edit methods Window Options Undo function Help functions Creating a chart Formatting a chart Functions related to dates	Find and Replace functions Sort functions Subtotal functions AutoFilter functions Pivot Table functions Protection features Control objects Functions related to text	VBA – User defined functions Iterative functions Comments Data Form functions Audit functions Error messages Others actuarial uses of Excel
Excel Environment Commonly Used functions Vlookup function			

Evaluation: Quiz: 20% of the Excel portion
 Assignment: 80% of the Excel portion

Introduction to Axis (5 weeks)

Introduce Basic Concepts Relative to Life Insurance	Give a high level view of Axis and Its Uses
<ul style="list-style-type: none"> ○ Definition of life insurance ○ Different types of coverage available <ul style="list-style-type: none"> ▪ term vs Whole life ▪ universal vs. traditional ▪ lapse supported product 	<ul style="list-style-type: none"> ○ introduce the concept of modules, datasets ○ learn how to navigate within AXIS ○ describe the concepts of Funds, Subfunds and Cells ○ describe the mechanics of a cell ○ learn to use certain functionalities: overrides, filters, etc... ○ work through an case study of how Axis can be used to price a simple life insurance plan.

Evaluation: 100% of the Axis portion will be tested through one assignment (no formal exam).

Introduction to Access (4 weeks)

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

Evaluation: Quiz: 20% of the Access portion
 Assignment: 80% of the Access portion