

ACMA 210-3

Mathematics of Compound Interest

Fall 2013
Day Course

Students requiring accommodations as a result of disability must contact the Centre for Students with Disabilities 778-782-3112 or csdo@sfu.ca

Instructor: Barbara Sanders

Prerequisite:

MATH 152. Students with credit for ACMA 310 may not take this course for further credit.

Required Text:

Mathematics of Investment and Credit (5th ed.) by Samuel A. Broverman. Publisher: ACTEX

References:

- *Mathematics of Compound Interest* by M.V. Butcher & C.J. Nesbitt, pub: Ulrich's
- *Theory of Interest and Life Contingencies with Pension Applications* by M.M. Parmenter, pub: Actex
- *The Theory of Interest (2nd ed.)* by S.G. Kellison, Publisher: Richard D. Irwin Inc.
- *An Introduction to the Mathematics of Finance* by J.J. McCutcheon & W.F. Scott, pub: Institute and Faculty of Actuaries
- *Financial Mathematics – A Practical Guide for Actuaries and other Business Professionals (2nd ed.)* by Ruckman and Francis, pub: BPP Professional Education
- *Derivatives Markets (2nd ed)* by Robert L. McDonald, pub: Addison Wesley

Calendar Description:

Measurement of interest, present value. Equations of value. Basic annuities: immediate, due, perpetuity. General annuities. Yield rates: cash flow analysis, reinvestment rate, portfolio and investment year methods. Amortization schedules and sinking funds. Bonds and other securities. Applications: real estate mortgages depreciation methods. Interest rate disclosure and regulation in Canada. Covers nnu

Students should be aware that they have certain rights to confidentiality concerning the return of course papers and the posting of marks. Please pay careful attention to the options discussed in class at the beginning of the semester. Students are reminded that Academic