



Actuarial Science 535

Mathematics of Demography

(see Course Descriptions for the applicable academic year: <http://www.ucalgary.ca/pubs/calendar/>)

ReferenceText: "Introduction to Mathematics of Demography", by R.L. Brown, 3rd edition.
(not necessarily a required text)

Additional Reading: ACTEX Study Manual for course 161.

Syllabus

Topics

**Number of
Hours**

Data: sources and errors I, II (Chpt 1.1-1-4)

6

Measures of mortality and fertility (Chpt 2)

3

Construction of Life Tables from census data I, II (Chpt 4.1-4.5)

5

Stationary population Theory I, II (Chpt 5.1-5.5)

6

Stable population Theory I, II, III (Chpt 6.1-6.4, Appendix C)

8

Population Projection I, II (Chpt 7.1-7.3)

6

Uses of Census data (Chpt 8)

2

TOTAL HOURS

36

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RA:md
1991:09:03

Effective Fall 1991
Calendar change from H3-1T to H3-0 Fall 2009