



Faculty of Science
DEPARTMENT OF MATHEMATICS AND STATISTICS
Course Information Sheet

- Course:** ACSC 527
Lecture/Time/Session: L01 MWF 13:00
Instructor: Christiane Lemieux
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Winter 2006
Phone: 220-3939
- Prerequisites:** MATH 323 and ACSC 327
NOTE: The Faculty of Science policy on pre- and co-requisite checking is outlined in the current University Calendar (see www.ucalgary.ca/pubs/calendar) *Faculty of Science, section 5C*. **It is the students' responsibility to ensure that they have the pre- and co-requisites for the course, and if they do not they will be withdrawn from the course without notice.**
- Fee policy:** After the last day to drop/add courses, there will be no refund of tuition fees if a student withdraws from a course, courses or the session.
- The University policy on grading and related matters** is described in the current University Calendar, *Academic Standings*. In determining the overall grade in the course, the following weights will be used:

Mid-term Test	[2]	40%
Assignments	[3]	30%
Final Exam		30%

A passing grade on any particular component of the course is essential to passing the course as a whole. There will be a final examination scheduled by the Registrar's Office. *** The use of aids such as open book, etc. is not permitted.

- Missed Components of Term Work.** The regulations of the Faculty of Science pertaining to this matter are outlined in the current University Calendar, *Faculty of Science, section 6A*. It is the student's responsibility to familiarize herself/himself with these regulations.
- Academic misconduct** (cheating, plagiarism, or any other form) is a very serious offence that will be dealt with rigorously in all cases. A single offence may lead to disciplinary probation or suspension or expulsion. The Faculty of Science follows a zero tolerance policy regarding dishonesty. Please read the sections of the current University Calendar. See: <http://www.ucalgary.ca/honesty/>
- Dates and times of class exercises held outside of class hours (evening tests, Saturday laboratory examinations, weekend field trips, etc.):** **** There will be no out-of-class-time activities. ****

REGULARLY SCHEDULED CLASSES HAVE PRECEDENCE OVER ANY OUT-OF-CLASS-TIME-ACTIVITY. If you have a conflict with this out of class time activity, please inform your instructor at least one week in advance of the activity so that other arrangements may be made for you.

Additional Course Information

Actuarial Science 527 – Life Contingencies III

Textbooks: (1) *Actuarial Mathematics*, second edition, Bowers, Gerber, Hickman, Jones and Nesbitt, 1997. (2) *A problem solving approach to pension funding valuation*, second edition, Aitken, 1996.

Exams: There will be 2 50-minute exams each worth 20%.

Assignments: There are 3 assignments each worth 10%. They are due at the beginning of Friday's lecture.

Academic misconduct: Cheating and plagiarism are very serious offences that will be dealt with rigorously in all cases.

Grades: Any inquiry about grades should be done in person. Emails regarding grades may not be responded to.

Missed exams: If you miss an exam and have a valid and documented reason, the weight will be shifted on other components of the course. Note that, for example, lack of transportation or conflict between work and regularly scheduled classes are not valid excuses.

Tentative Schedule

An updated schedule will be available at <http://www.math.ucalgary.ca/~lemieux/acsc527.html>
An A in parentheses (A) refers to Aitken's book.

Week	Topic
9/01	Two random variables; Chapter 10 (Bowers): 10.1 – 10.2
16/01	Survivorship groups. Chapter 10 (Bowers): 10.3 – 10.4
23/01	Associated single decrement models; Multiple-decrement tables. Chapter 10 (Bowers): 10.5 – 10.6.
30/02	Introduction to pension funding. Assignment 1 due Chapter 1 (A).
6/02	Unit credit methods. First exam (tentative). Chapter 2 (A).
13/02	Entry age normal (EAN) method, level-dollar. Chapter 3: 3.1 (A).
20/01	Reading Week
27/03	EAN, level-percent. Chapter 3: 3.2 – 3.3 (A).
6/03	Individual level premium; supplemental costs. Assignment 2 due Chapter 3: 3.4 – 3.5 (A).
13/03	Individual aggregate method; aggregate method. Chapter 4: 4.1 – 4.2 (A).
20/03	Frozen initial liability method. Second exam (tentative). Chapter 4: 4.3 (A).
27/03	Aggregate entry age normal method. Chapter 4: 4.5 (A).
3/04	Experience and investment gains. Assignment 3 due Chapter 5: 5.1 – 5.3 (A).
10/04	Withdrawal, salary and mortality gains. Chapter 5: 5.3 – 5.7 (A).