



Faculty of Science
DEPARTMENT OF MATHEMATICS AND STATISTICS
Course Information Sheet

1. **Course:** ACSC 527
Lecture/Time/Session: L01/ MWF 13:00
Instructor: Christiane Lemieux
Office: MS 436
- Winter 2004**
Room # SB 148
(lemieux@math.ucalgary.ca)
Phone: 220-3939

2. **Prerequisites:** MATH 323 and ACSC 327.

NOTE: The Faculty of Science policy on pre- and co-requisite checking is outlined on page 198 of the 2003-2004 Calendar. **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responsibility to ensure that they have the pre- and co-requisites for the course., and if they do not, they will be withdrawn from the course without notice.**

3. **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.
4. **The University policy on grading and related matters** is described on pages 41-42 of the 2003-2004 Calendar. In determining the overall grade in the course, the following weights will be used:

Assignments	[3]	30 %
Mid-term Tests	[2]	40 %
Final Exam	[1]	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.

5. **Missed Components of Term Work.** The regulations of the Faculty of Science pertaining to this matter are outlined on page 199, of the 2003-2004 Calendar. It is the student's responsibility to familiarize herself/himself with these regulations.
6. **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 2003-2004 University Calendar under the heading "Student Misconduct", pages 53-56.
7. **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

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%. They will be held during Thursday’s lab. The final exam will be scheduled by the Registrar..

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. The Faculty of Science (and thus the instructor) follows a zero tolerance policy regarding dishonesty, and this includes copying assignments from another student.

Tentative Schedule

A more detailed course map will be posted on the course’s web page

<http://www.math.ucalgary.ca/~lemieux/acsc527.html>

as the course progresses. An A in parentheses (A) refers to Aitken’s book.

Week	Topic
12/01	Two random variables; Chapter 10 (Bowers): 10.1 - 10.2
19/01	Survivorship groups; Associated single decrement Tables. Chapter 10 (Bowers): 10.3 - 10.5
26/01	Multiple-decrement tables; Introduction to pension funding Chapter 10 (Bowers): 10.6; Chapter 1 (A).
2/02	Unit credit methods. Assignment 1 due Chapter 2 (A).
9/02	Projected unit credit method. First exam (tentative). Chapter 2 (A).
16/02	Reading Week
23/02	Individual entry age normal (EAN) methods. Chapter 3 (A).
1/03	Individual level premium cost method; supplemental costs. Chapter 3 (A).
8/03	Individual aggregate cost method; aggregate cost method. Assignment 2 due Chapter 4 (A).
15/03	Frozen initial liability entry age normal method. Chapter 4 (A).
21/03	Aggregate entry age normal method. Second exam (tentative). Chapter 4 (A).
29/03	Unfunded liabilities and gains; total expected gains. Chapter 5 (A).
5/04	Investment and retirement gains. Assignment 3 due Chapter 5 (A).
12/04	Withdrawal, salary and mortality gains. Chapter 5 (A).