



جامعة الملك فهد للبترول والمعادن
King Fahd University of Petroleum & Minerals

KING FAHD UNIVERSITY OF
PETROLEUM & MINERALS
DEPARTMENT OF MATHEMATICS & STATISTICS
DHAHRAN, 31261, Kingdom of Saudi Arabia

AS 288: Actuarial Science Prob Lab I

Term 152 – spring 2016

Instructor: Mr. Moenes Mellouli

Office: Building – 5, Room – 320 **Phone:** 7630 **E-mail:** mmellouli@kfupm.edu.sa

Office Hours: Sunday, Tuesday and Thursday: **9:00 – 10:40** or by appointment.

Class meeting Days: W 9:00 am – 9:50 am. Building – 59, Room - 1011

For regular announcements, students are advised to check the **Blackboard** regularly.

Course Descriptions:

This problem lab is designed to prepare Actuarial majors for the second Society of Actuaries and Casualty Actuarial Society Examinations, FM (Financial Mathematics).

Credit: (0 – 1 – 1).

Prerequisite: AS 201

Textbook & Package:

- 1- Mathematics of Investment and Credit, 5th edition, by Broverman, S.A., ACTEX Publications Inc. (2010).
 - 2- McDonald, R.L., Derivatives Markets (Third Edition), 2013, Pearson
 - 3- ACTEX SOA exam FM study manual, December 2014 edition, by Hasset M. J., and Rattliff M. I.
 - 4- Texas BAII plus calculator or Texas BAII professional or check for other SOA approved calculators
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Learning Objectives:

<https://www.soa.org/education/exam-req/edu-exam-fm-detail.aspx>

Activity Schedule:

Assessment for this course is based on a **set of homework assignments**, **two major exams** and a **comprehensive final exam**, as described in the following table:

Activity	Weight
In class presentations	10%
Major Exam I / Date: 6th week Time & Location: TBA	30%
Major Exam II / Date: 13th week Time & Location: TBA	30%
Final Exam / Date: TBA Time & Location: TBA	30%

Attendance, cell phone use & other penalties:

- ✓ **Attendance** on time is *very* important. A 1% will be deducted from your final grade if you enter the class when the door is closed. **No excuses will be accepted.**
- ✓ **Notebook & pen/pencil** are mandatory. A 1% will be deducted from your final grade if you enter the class without your Financial Mathematics notebook and something to write with. **No excuses will be accepted**
- ✓ **Full attention in class** - A 1% will be deducted from your final grade if you are seen using your cellphone for texting or surfing the web. **No excuses will be accepted.**
- ✓ In accordance with the University rules, "a grade of **DN** in a course is given if the student's unexcused absences are more than 20% of the lecture and laboratories sessions scheduled for the course". Therefore, students who accumulate **3, or more, unexcused absences** will receive a **DN** grade.

Letter Grades:

Letter grade	A+	A	B+	B	C+	C	D+	D	F	DN
Cut-off	90%	85%	80%	75%	67%	60%	55%	50%	<50%	≥ 9 absences

Missing Exam I or Exam II or Exam III:

- No makeup exam will be given under any circumstance. When a student misses Exam I or Exam II for a legitimate reason (such as medical emergencies), his grade for this exam will be determined based on the existing formula, which depends on his performance in the non-missed exams and in the final exam. It is to the professor's discretion whether to accept or refuse the student's excuse for missing an exam.

General class information:

- Students are required to carry a pen/pencil, notebook and a SOA approved calculator to EVERY lecture.
- Students are required to carry a pen/pencil, a sharpener, and eraser and a SOA approved calculator to every exam.

General SOA FM exam information:

- To successfully prepare for the SOA FM exam, students MUST solve problems regularly. The selected assigned problems are specifically designed to prepare you for major and final exams and the SOA FM exam. So, it is expected that you complete these problems step-by-step and with comprehension.
- The SOA FM examination is a three-hour multiple-choice examination.

Academic Integrity: All KFUPM policies regarding **ethics** and **academic honesty** apply to this course.