

# Math 3211: Theory of Interest B Term 2014 WPI Syllabus

**Professor:** Marcel Blais  
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508-831-5677

**Office Hours:** M 3:30pm – 4:00pm  
W 11:00am – 12:00pm  
R 1:00pm – 2:00pm  
By Appointment

**Class Info:** Lecture: MTWR 10:00am – 10:50am SH 106

Many details of the course will be managed through mywpi. Check the course website regularly.

**Text:** *Mathematics of Investment and Credit, 5<sup>th</sup> Edition* by Samuel A. Broverman.

**Overview:** An introduction to actuarial mathematics is provided for those who may be interested in the actuarial profession. Topics usually included are: measurement of interest, including accumulated and present value factors; annuities certain; amortization schedules and sinking funds; and bonds. Recommended background: MA 1024 and the ability to write computer programs. This course is taught to prepare for part I of the *Financial Mathematics* exam of the Society of Actuaries and Casualty Actuarial Society. More information can be found on <https://www.soa.org/education/exam-req/edu-exam-fm-detail.aspx>.

**Grading:** The final grades will be computed using:

Homework & WebWork	40%
Midterm Exam	30%
Final Exam	30%

**Exams:** Midterm Exam Thursday 11/20/2014, In Class  
Final Exam Thursday 12/18/2014, In Class

**Calculators:** During exams students may use calculators approved for SOA/CAS exams. The approved calculators are:

- BA-35
- BA II Plus
- BA II Plus Professional
- TI-30Xa
- TI-30X II (IIS solar or IIB battery)
- TI-30XS Multiview (or XB battery)

In class we will use the BA II Plus Professional.

**Homework/ WebWork:** There will be regular written homework assignments and WebWork assignments. WebWork can be found at <https://webwork.wpi.edu/webwork2/MA3211B14/>. Homework submissions have to not only contains the results, but carefully developed calculations and proofs that can be easily followed by the reader. Homework assignments are meant to *present* the detailed solutions of problems.

**Make-up Exam Policy:**

Make-up exams will only be allowed in the event of a documented emergency or a WPI club or sport related formal activity that is brought to my attention at the beginning of the course. You are responsible for avoiding conflicts with the exams. Do not plan to leave campus for the term before the final exam.

**Late HW:**

Late assignments without prior consent of the professor will not be accepted and will receive a grade of 0. Extensions will be granted only in the event of unforeseen emergencies or extenuating situations that you discuss with the professor in advance.

**Academic Honesty:**

WPI has an established academic honor code, described in *The WPI Student Judicial Policies and Procedures*. Each student is expected to familiarize him/herself with WPI's Academic Honesty policies, which can be found at <http://www.wpi.edu/offices/policies/honesty>. All acts of fabrication, plagiarism, cheating, and facilitation will be prosecuted according to the university's policy. If you are ever unsure as to whether your intended actions are considered academically honest or not, please see Prof. Blais.

**Disability Services:**

If you need course adaptations or accommodations because of a disability, or if you have medical information to share with me, please make an appointment as soon as possible. If you have not already done so, students with disabilities, who believe that they may need accommodations in this class, are encouraged to contact the Office of Disability Services (ODS), as soon as possible to ensure that such accommodations are implemented in a timely fashion. The DSO is located in 137 Daniels Hall, its phone number is (508) 831-4908, and its email is [DisabilityServices@wpi.edu](mailto:DisabilityServices@wpi.edu).

This syllabus is subject to change at the professor's discretion.