

## MATH 362 Theory of Interest, Section 1

Class Times: T R F, 9:00 – 9:50, Sci D223

Instructor: Daniel Harnett

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Office Hours: MT RF 10:00 – 10:50, or by appt.

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### Course Description:

3 cr. Interest rate measurement, force of interest, valuation of annuities with constant or non-constant payments, amortization and loan payment schedules, bond valuations, methods of measuring rate of return, spot and forward rates of interest, cash flow duration and immunization.

The primary focus of this course will be how to solve actuarial exam problems from the FM exam.

### Required Materials:

1. **Text:** Mathematics of Investment and Credit, 6th Ed., by S.A. Broverman, available at Text Rental
2. **Calculator:** TI-83, TI-83+, TI-84, or TI-84+ recommended. You need a calculator with standard Business/Financial functions. Cellphone calculators, and in general calculators that communicate with other calculators, are NOT allowed during tests.
3. **Computer access:** You are expected to access your UWSP email for course announcements. Occasionally documents may be posted on the Canvas web site for the course.
4. **Actuarial Exam Prep Resources:** there are many study guides and practice tests that are commercially available. These are not required for the course but will help immensely if you wish to pass the FM exam.

**Attendance:** You are expected to attend every class. If you are absent, for any reason, it is your responsibility to talk with others who were present and get notes from them. You are responsible for making sure that you have copies of all materials distributed in class, announcements made in class, and content covered in class. If you miss an exam (DON'T!), it is YOUR responsibility to contact the instructor ASAP.

**Exams:** There will be four exams during the semester, plus a final exam. The exam dates and content will be announced in class well in advance. Each exam will be multiple-choice questions, and all questions will be simulated actuarial exam questions. All exams including the final will be similar length and worth the same number of points. Only the four highest exam scores will count toward your grade.

**Final Exam:** The Final Exam will be on Monday, May 13 at 8:00 am.

### Grade Calculation:

5 Exams (drop lowest, so 25% each)

100%

### Academic Integrity

You should be fully aware of your rights and responsibilities as a UWSP student. These are detailed in the UWSP Community Bill of Rights and Responsibilities found at <http://www.uwsp.edu/dos/Documents/CommunityRights.pdf>

Information regarding Section 504 of the Rehabilitation Act or the Americans with Disabilities Act can be found at the UWSP Disability and Assistive Technology Center site <http://www.uwsp.edu/disability/Pages/default.aspx>

**Religious Beliefs:** Students' sincerely held religious beliefs will be reasonably accommodated with respect to all examinations and other academic requirements. According to UWS 22.03, you must notify the instructor within the first three weeks of classes about specific dates which require accommodation. See the link below: <http://www.uwsp.edu/dos/Documents/CommunityRights.pdf>

