

**MATHEMATICS 311 - January 2015**  
**COURSE OUTLINE**

**INSTRUCTOR:** A. R. Sourour                      SSM A553                      sourour at uvic dot ca

**OFFICE HOURS:** To be posted on [www.math.uvic.ca/faculty/sourour](http://www.math.uvic.ca/faculty/sourour)

**Prerequisites:** **Math 211** (or one of 110, 133, 233A) and **Math 212** (formerly 233C)

**TEXTBOOK:** S. Friedberg, A. Insel and L. Spence, “*Linear algebra*”, 4<sup>th</sup> edition.

**COURSE CONTENT:** Roughly the whole book.

**NOTE 1:** This is a **proof-intensive rigorous** course. It deals with the theory of abstract vector spaces and linear transformations on them. Students will be required to learn the proofs in the textbook and construct their own proofs to solve exercises.

**NOTE 2:** The textbook is self-contained. Practically every section includes some of the matrix theory done in Math 110 or 211 as well as the abstract and theoretical material done in this course. The emphasis of this course is on the abstract and theoretical aspects. The appendices include some of the relevant material from MATH 212.

**EVALUATION:**

Assignments (about six)	<b>30%</b>
Term Test (6 February 2015)	<b>10%</b>
Term Test (13 March 2015)	<b>10%</b>
Final Exam (3 hrs) scheduled by the Records Office during the April Exam Period.	<b>50%</b>

- Assignments will be assigned and collected - roughly - every two weeks. Late assignments will not be accepted. Solutions should be correct, complete, clear, and neatly presented to get full marks. You may discuss the homework questions and answers with your colleagues but every one should write the solutions in her/his own words and should understand the solutions and should be able to explain them. You must reference any external source precisely. Failure to do this constitutes a breach of academic integrity,

**DEPARTMENT COURSE POLICY.** Available on

<http://www.uvic.ca/science/math-statistics/undergraduate/course-policies/index.php>

**NOTE:** You must not make definite plans for travel or employment during the April exam period until the exam schedule has been posted. Off-schedule exams are given only in accordance with the regulations on “Illness, Accident or Family Affliction” in the University Calendar.