

Mathematics 2103
Fall 2012

- Instructor:** James Preen (email: james_preen@cbu.ca)
- OFFICE:** A-129A (GROUND FLOOR, A-WING, BOTTOM OF THE RAMP)
- Office Hours:** Tuesday and Thursday 2pm to 4pm.
- CLASS MEETINGS:** TUESDAYS AND THURSDAYS 11.30AM TO 12.45PM IN CE314
- Textbook:** “Elementary Linear Algebra” by W. Keith Nicholson
- GRADING:** FOUR OR FIVE ASSIGNMENTS OR TESTS COUNTED EQUALLY.

Past exams, questions and handouts are available on the web at <http://faculty.capebretonu.ca/jpreen/2103/> and extra questions may be assigned or requested at any point in the course. Students are encouraged to ask for clarification on the material both during and after classes. Academic regulations concerning penalties for plagiarism and cheating (pp. 39-40 of the university calendar) will be rigidly enforced in this course. A supplemental exam for the course will not be made available.

Major Topics:

- Review of Matrix Algebra using other number systems
- Independence and Vector Spaces
- Linear Transformations
- Inner Products and Orthogonality
- Operators and the Cayley-Hamilton Theorem