

**Mathematics 226**  
**Winter, 2007**

- Instructor:** James Preen (email: james\_preen@cbu.ca, phone 563 1181)
- Office:** A-129A (first floor, A-wing, at the bottom of the ramp)
- Office Hours:** Tues 12-1 and Thurs 10-11 and 1-4, or by appointment
- Class meetings:** Tues 10am and Thurs 8:30am in room CE314
- Textbook:** “Elementary Linear Algebra” by W. Keith Nicholson
- Grading:** Four assignments or tests worth 25% each.

Past exams, questions and handouts are available on the web at <http://faculty.capebretonu.ca/jpreen/226/> 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 plagiarizing and cheating (pp. 226-227 of the academic calendar) will be rigidly enforced in this course. A supplementary examination for the course will not be offered.

**Major Topics:**

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