Math 122 A  Applied Linear Algebra

Fall 2019

Course Overview:
Vectors, matrices, linear independence, vector spaces (with focus on real n-space),
determinants, linear transformations, eigenvalues and eigenvectors. Applications from
engineering and the sciences incorporated through required Matlab assignments. Credit not
given for both MATH 122 and MATH 124. Prerequisite: MATH 022 or MATH 023. Credits:
3.00

Materials:
WebAssign access for Linear Algebra with Applications, 9th edition, by Garreth
Williams. WebAssign includes access to the e-text of the textbook as well as homework
exercises.

Williams.

Class time: The class meets 10:50 am- 11:40 am  M W F in Aiken 110
Please refrain from using computers and cell phones during class.

Attendance: In accordance with University Policy, I allow students to miss classes due to
religious observances, varsity sporting matches or any other activities stated in the UVM
attendance policy. If you will be absent, plan to get the class notes from a peer and read the
lesson plans posted on Blackboard.

Instructor Information:
Name: Dr. Dan Hathaway
Email: Daniel.Hathaway@uvm.edu  *Include Math 122 A in the subject line
Office: Innovation Bldg, Room 311

Office Hours:
Monday, Wednesday, and Friday 11:50 am to 1:00 pm

Please feel free to email me to set up an appointment at another time if you have class
during these office hours.

Homework:
Approximately weekly homework is assigned to be completed in WebAssign.
(www.webassign.net).
You will need our class key: uvm 6123 0718

WebAssign Extension Policy: You may request an automatic extension through
WebAssign. The request for an automatic extension must be made within 1 day of the
assignment due date. An automatic extension extends the assignment due date by 24 hours.
Automatic extensions carry a penalty of 30% on the work that is late. *Extensions are not permitted if you have already viewed the Answer Key.* No manual extensions will be granted.

You have a maximum of 5 attempts per problem.

The lowest homework score will be dropped.

**Matlab Assignments:**
There will be Matlab projects assigned periodically and posted on Blackboard (bb.uvm.edu). Matlab is available on the UVM CEMS computers. I assume that you have no prior experience with Matlab. You can download Matlab to your computer (for free):

https://www.uvm.edu/cems/installing_matlab_students

No late Matlab assignments are accepted for grading. Late lab submissions will be graded as zero. Submission problems are not an excuse for lateness. Check that your submissions are visible to you and you can open and read the files. You may collaborate with others, but you must submit your own code, answers, and analysis. If you write a script, that must be submitted also.

**Quizzes:** Be prepared for quizzes on Wednesdays. Blackboard keeps track of the lowest 2 quiz grades and drops them throughout the quarter. Use the 2 dropped quizzes wisely to cover any absences for university events, illness, family emergencies, funerals, and workload issues. No make up quizzes. No books, calculators or electronic devices may be used on the quizzes.

**Midterm Exams:** There will be 2 midterm exams. The dates of the midterms are September 25 and October 30. You may bring one 3 x 5 inch card filled front and back to the midterm exams. You may keep these cards for use on the final exam. Each test is cumulative from the beginning of the course. No books, calculators or electronic devices. No make-up exams.

**Final Exam:** There will be a cumulative final exam given at the end of the semester. The final exam will be held on Dec 9 at 10:30am to 1:15pm in our usual classroom. You may bring three 3 x 5 inch cards filled front and back to the final exam. No books, calculators or electronic devices.

**Computation of grade:**
Homework 13%
Matlab Projects: 7%
Quizzes: 10%
Midterm1: 22%
Midterm2: 23%
Final Exam: 25%

The following are General Policies:
**Academic Integrity:** Any suspected violations of the Code of Academic Integrity are taken very seriously and will be forwarded to the Center for Student Ethics and Standards. For more information about the Code of Academic Integrity, visit the Center for Student Ethics and Standards website at [www.uvm.edu/cses](http://www.uvm.edu/cses).

**Special Accommodations**
In keeping with University policy, any student with a documented disability interested in utilizing accommodations should contact ACCESS, the office of Disability Services on campus. ACCESS works with students and faculty in an interactive process to explore reasonable and appropriate accommodations, which are communicated in an accommodation letter to faculty. Contact ACCESS: A170 Living/Learning Center; 802-656-7753; [access@uvm.edu](mailto:access@uvm.edu) or visit [www.uvm.edu/access](http://www.uvm.edu/access).