Math 122 D  Applied Linear Algebra

Spring 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.

Class time: The class meets 9:40am- 10:30am  M W F in Perkins 102
Please refrain from using computers and cell phones during class.

Attendance: In accordance with University Policy, I will allow for students to miss classes due to religious observances, varsity sporting matches or any other activities stated in the UVM attendance policy. All requests for missed classes should be submitted in writing to the instructor within the first two weeks of class.

Instructor Information:
Name: Dr. Dan Hathaway
Email: Daniel.Hathaway@uvm.edu *Include Math 122 D in the subject line
Office: Mansfield House Room 106

Office Hours:
Wednesday 10:30am to 11:50 am
Wednesday 2:00 pm-2:50 pm
Friday 10:30am to 11:50 am
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 6305 8404

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 and a max of 2 automatic extensions may be granted. Automatic extensions carry a penalty of 30% deducted from whatever points have not yet been earned on the assignment. Extensions are not permitted if you have already viewed the Answer Key. No manual extensions will be granted. The lowest homework score will be dropped.

**Matlab Assignments:**
There will be Matlab projects assigned periodically and posted on Blackboard. 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](https://www.uvm.edu/cems/installing_matlab_students)

The Matlab assignments will be posted in Blackboard (bb.uvm.edu). No late Matlab assignments are accepted for grading. You may collaborate with others, but you must submit your own code, answers, and analysis. If you write a script, that must be submitted.

**Quizzes:** No make up quizzes. Be prepared for weekly quizzes on Wednesdays. The two lowest quiz grades will be dropped at the end of the quarter. Use the 2 dropped quizzes wisely to cover any absences for university events, illness, family emergencies, funerals, and workload issues. No books, calculators or electronic devices.

**Midterm Exams:** There will be 2 midterm exams. The dates of the midterms are February 13 and April 3. You may bring one 3 x 5 inch card filled front and back to the midterm exams. 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 May 9 at 7:30 am (to 10:15 am) 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: 20%
Midterm2: 20%
Final Exam: 30%

**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).