Instructor: Tom Reuterdahl

Meeting Time: Wednesday 7:00 pm – 10:05 pm
Room: 7-7106

Office Hours: Wednesday 6:00 pm – 7:00 pm
Thursday 6:00 pm – 7:00 pm
Tuesday 7:00 pm – 8:00 pm
Room: 7-7109
Room: 7-7106
Online & email

TBA Hours: This course requires 1 TBA hour per week
CRN 80580

Required Course Materials:
NOTE: Previous editions of the text are not acceptable!

Student Study Guide
TI-83 calculator or equivalent

Dates: August 19 Math 270 begins
December 16 Final exam

Prerequisite: Math 252 (Calculus II) with grade of C or better.

Technology: You must have internet access for course materials. In addition, you must have access to a printer as there will be a number of documents you will be required to print and turn in during the semester. If this is a problem, let me know immediately.

My email address for all correspondence is reuterdahlt@smccd.edu. Note: My last name is Reuterdahl not reuterdahlt as in my email address! In order to be sure your messages don't get lost, ALWAYS put the text string MATH 270 in the Subject line of your message. If you fail to do so I probably will not respond to your message.

It is IMPERATIVE that you check the course website frequently for updates and new course materials!! To avoid missing important messages from myself or the College/District, please activate your student email account by logging in at http://my.smccd.edu/ if you have not already done so. Messages regarding your registration status, as well as other necessary information, will be sent to you through this means of communication. Failure to know what's going on in the course because you did not look at the website is no excuse!

ALL SMART PHONES, DUMB PHONES, TABLETS, COMPUTERS, OR ANY OTHER DEVICE(S) USED FOR COMMUNICATING WITH THE OUTSIDE WORLD, MUST BE TURNED OFF DURING CLASS UNLESS I STATE OTHERWISE! NO EXCEPTIONS!!

Note: I will limit any use of hand-held or wireless technology that disrupts learning opportunities, degrades the learning environment, promotes academic dishonesty, or illegal activities. Students who require access to hand-held or wireless technology as assistive measures for documented disabilities may use them according to their accommodations as provided by the Disabled Student and Services program. A violation of this policy will result in disciplinary action to be determined by the instructor. Sanctions are explicitly stated in the College's Student Code of Conduct.
A word about teaching.

"Teachers open the door. You enter by yourself." - Chinese Proverb.

Teaching means to organize and present the material, provide exercises and projects which challenge you, and to evaluate your work. What you learn depends on the work you do -- if you get a good grade, don’t thank me, thank yourself.

When I evaluate your work, I must judge what you say and particularly write. When I hear someone say "I understand the material, but I can’t do the problems." I know that it means "I have a superficial understanding of the material, but I have not yet mastered it to the level which will allow me to do the problems." Be professional about your written work (there is no excuse for sloppy work).

How to Forward Your my.smccd.edu Email to Another Email Address:

Your instructor (that’s me!), and Skyline College, will use your my.smccd.edu email account to share information with you. If you don’t check that email, you will miss important news. If you don’t want to check your my.smccd.edu account, and you would rather use an email account such as hotmail, yahoo, Gmail, or another, please take a few minutes to set up forwarding for your my.smccd.edu email to your regular account. Follow these steps:

1. Go to Websmart at https://websmart.smccd.edu/
2. In your student account area, click on the link that says "New! Student Email"
3. Here, you may view your email address and password, and you may reset your password.
4. IMPORTANT: Open your my.smccd.edu email.
5. Click "Settings" at the top of the page.
6. Click the "Forwarding and POP/IMAP" tab.
7. Under Forwarding, click the "Forward a copy of incoming mail" button.
8. Enter the email address you want to forward your email to
9. Click "Save Changes."
Let me know ASAP if you have any difficulties with this!

Preparation for Class: Come to class prepared to ask and/or answer questions regarding the assigned material. You are expected to spend a minimum of two hours outside of class for each hour spent in class. I expect nothing less than your best effort. If that is a commitment you are unwilling to make, drop the course now.

Attendance is expected and required. I begin class on time and I come to class prepared. I expect you to do the same. If you miss a class, you remain responsible for material covered. Attendance will be taken each day using a sign-in sheet. Irregular or poor attendance is grounds for being dropped from the course. Any student who misses two of the first three classes will be dropped from the class. Also, any student who misses three or more classes prior to the last day to withdraw will be dropped from the class. No exceptions.

Breaks: We will take breaks during the evening. DO NOT wander in and out of class while in session, it is distracting and annoying. We're not in high school anymore.

Code of Student Conduct: You are responsible for adhering to the Code of Student Conduct outlined in the Skyline College Catalog and the Skyline Student Handbook, available online. Students who engage in disruptive behavior - conduct that interferes with the instructional, administrative, or service functions of the course - may be subject to disciplinary action, including suspension and/or expulsion from the course and/or college. Specifically, cell phone interruptions, the use of iPods, habitual profanity or vulgarity, and continued willful disobedience will result in disciplinary action.
**Academic Integrity:** The work you submit/present must be your own. The Skyline College Student Handbook has a complete statement defining cheating and plagiarism, available online. If you are caught cheating or plagiarizing another person's work, you may be disciplined in one or more of the following ways:

1. Dropped from the course.
2. You may be referred to the College Disciplinarian for further sanctions which range from a warning to expulsion from Skyline College.

**Dropping the course.** If you decide to drop the course **BE SURE** to do so properly. If you fail to notify the Skyline administration office you will receive a grade of "F" for the course. No exceptions.

**Grading Policy:**
There is no "grade curve" in the course. I will set grades as follows:

- 90-100% A,
- 80-89.999% B,
- 70-79.999% C,
- 60-69.999% D,
- below 60% F

Your grade will be determined as follows (Dates are tentative and subject to change):

- Homework 3% weekly Late homework not accepted
- TBA Quizzes 12% weekly No makeup or late quizzes
- Midterm exam 1 25% 9/30
- Midterm exam 2 25% 11/18
- Final exam (cumulative) 35% 12/16

**Final exam:** You must pass the final exam with a minimum of 70% to pass the course.

**Makeup exams:** In general there are NO makeup exams in the course. However, in case of an emergency, a makeup exam will be considered only if the event is documented, in writing, by a health professional or other responsible person familiar with the event. Otherwise, if you miss an exam you will receive a zero for that exam.

**Extra Credit Policy:** There is no extra credit for this course - please don't ask!

**TBA hours:** 1 TBA hour per week is required for the course. There will be a quiz each week covering the homework due for that week. The quiz will be posted on the course website each week. Download the quiz pages, work the problems, and turn them in at the next class meeting. No late quizzes will be accepted.

**Homework assignments:**
Do all required assignments on time. If you do not do the homework it will be very difficult, if not impossible, to pass the exams and the course. Mathematics is not a spectator sport!! Good hard work is the best approach to maximize your probability of success. Each homework assignment is due the week after it is assigned and will be collected. Late homework will not be accepted. No exceptions.

I will post a homework "cover sheet" on the course website each week which will contain the assigned problems and other information for each week. Print out a copy of the cover sheet and append it as the first sheet of the homework assignment before you hand it in. **No cover sheet, no credit for the assignment.**

**Student Learning Outcomes:**
Upon successful completion of this course, a student will meet the following outcomes:

- Formulate linear systems as mathematical models.
- Represent any linear system with a suitable matrix equation.
- Compute the general solution to any linear system.
- Recognize inherent geometric and analytical properties of a given matrix.
- Understand the relationship between linear algebra and other branches of mathematics
Available Support Services: The Learning Center (Building 5) provides support for writing, reading, mathematics, and other subjects. Sign up for LSKL 800 for general tutoring. Librarians, on the 2nd floor of building 5, can assist with research projects and library questions. Academic counselors, health services, and other student support services are available in the Student Services Center in Building 2.

Disability: In coordination with the DSPS office, reasonable accommodation will be provided for eligible students with disabilities. If you do not yet have an accommodation letter, please contact the DSPS office at (650) 738-4280.

Course Content:
Chapter and Section numbers refer to the text, Linear Algebra and its Applications, 4th Edition, by David C. Lay

Chapter 1 Linear Equations in Linear Algebra, Sections 1.1 - 1.5, 1.7 - 1.9
Chapter 2 Matrix Algebra, Sections 2.1 - 2.3, 2.5
Chapter 4 Vector Spaces, Sections 4.1 - 4.9
Chapter 5 Eigenvalues and Eigenvectors, Sections 5.1 - 5.8
Chapter 6 Orthogonality and Least Squares, Sections 6.1, 6.2
Chapter 7 Symmetric Matrices and Quadratic Forms, Sections 7.1, 7.2

IMPORTANT NOTE: This topic schedule is tentative and subject to change in the event of extenuating circumstances. In addition, homework assignments are, depending on circumstances, subject to change at any time.

WEEK 1
8/19 Homework assignment
Chapter 1 Linear Equations in Linear Algebra
Read Sections 1.1 - 1.4
Exercises
Section 1.1 # 7, 11, 15, 19, 23, 25, 33
Section 1.2 # 1, 3, 7, 9, 11, 13, 19, 21, 23, 25, 27, 33
Section 1.3 # 11, 13, 17, 19, 21, 23, 25, 26
Section 1.4 # 3, 7, 11, 15, 17, 19, 23, 27, 31
Exercises for Sections 1.1 - 1.4 due 8/26