

COURSE INFORMATION	Location: MTH 206 Class Times: MWF 11:00-11:50 Instructor: Dr. Karl Frinkle Office: MTH 112 Office Hours: MWF 10:00 – 10:50, 13:00 – 13:50 TR 11:00 – 12:15 or by appointment Office Phone: (580) 745 – 2028 E-mail: kfrinkle@se.edu Website: <a href="http://homepages.se.edu/kfrinkle">http://homepages.se.edu/kfrinkle</a>
REQUIRED TEXT	<i>Principles of Linear Algebra with Mathematica</i> , by Kenneth Shiskowski and Karl Frinkle, ISBN # 978-0-470-63795-1
SUGGESTED TEXT	<i>Technology for Mathematics</i> , by Christopher Moretti (free)
SOFTWARE	A requirement for this course is <i>Mathematica</i> . The computer lab in the Mathematics building has <i>Mathematica</i> installed on it and you can obtain a free student version for your personal computer via the SE Help Desk site.
COURSE OBJECTIVES	This course will introduce the student to the fundamentals of linear algebra and its applications. We will also spend some time on the computational and programming aspects of the subject. In particular, we will cover topics including (1) solving linear systems of equations, (2) matrix algebra, (3) matrix applications, (4) vectors, (5) vector spaces, and (6) applications of matrices and vectors to geometry.
COURSE OUTLINE	There will be reading assignments each day, please refer to the <i>schedule</i> link on the website for an outline of what we will cover.  Many days the instructor will lecture. In addition to standard lectures, we will attempt to get familiar with <i>Mathematica</i> in the classroom. Linear algebra is a topic in mathematics which benefits greatly from the assistance of a computer algebra system such as <i>Mathematica</i> . Even simple looking computations can be complicated if done by hand, without no added benefit to the student. <i>Mathematica</i> will play an important role in solving these problems. An ideal scenario is having two lecture days per week, with the third class meeting each week devoted to <i>Mathematica</i> . Writing programs in <i>Mathematica</i> to solve more complicated tasks will also be an important part of this course, and you will be expected to use <i>Mathematica</i> on a portion of your homework assignments.
ASSIGNMENTS	Homework will be assigned on a section-by-section basis and will be collected two classes after the section is completed in class (so a section finished on Wednesday will be collected on Monday, for example). Each homework comes in two parts - one where work is done by hand and another which is done in <i>Mathematica</i> . There will be time in each class to take questions on homework from any section. Each homework section will be given a grade, and the resulting average is worth 75% of the course grade. Not every problem on a given homework will be graded.  The final will be cumulative and will consist of both an in-class and a take home portion, either of which may involve <i>Mathematica</i> . The in-class portion of the final will be on 2018.05.09, from 11:00-13:00. The final will count for 25% of your final grade.

GRADES	<p>Your final grade will be based upon the following items</p> <ul style="list-style-type: none"> <li>● 75% - Section homework assignments</li> <li>● 25% - Final exam</li> </ul>
POLICIES	<p>Cheating will not be tolerated in any shape or form. If you are caught cheating, it will be reported to the appropriate academic offices, and appropriate action will be pursued.</p> <p>All cell phones, laptops, calculators and other such devices must be turned off and put away before class begins. If you are caught using a cell phone during class, your final grade will be dropped by <b>one letter grade per incident</b>. It is also expected that everyone will behave in a kind and courteous manner towards fellow students and the instructor.</p> <p>I reserve the right to change any policies as I see fit to ensure that you are indeed receiving the best possible education that I can give you in the subject matter at hand. If I feel a certain aspect of the course does not appear to be effective in its method, I will attempt to change it (for the better I hope).</p>
IMPORTANT DATES FOR SPRING 2018	<ul style="list-style-type: none"> <li>● 2018.01.16 - Classes begin</li> <li>● 2018.01.22 - Last day to enroll in or add classes</li> <li>● 2018.01.22 - Last day to drop a class with no grade record</li> <li>● 2018.01.22 - Last day to drop a class with refund/no charges</li> <li>● 2018.01.26 - Faculty attendance certifications due</li> <li>● 2018.03.07 - Assessment Testing Day</li> <li>● 2018.03.19–23 - Spring Break</li> <li>● 2018.03.30 - Easter Holiday</li> <li>● 2018.04.02 - Last day to complete final application for graduation</li> <li>● 2018.04.13 - Last day to drop a class</li> <li>● 2018.05.09 - Final Exam, from 11:00-13:00</li> <li>● 2018.05.11 - Semester ends</li> <li>● 2018.05.12 - Commencement</li> </ul>
UNIVERSITY AND SCHOOL POLICIES	<p><b>Privacy:</b> Available through the Southeastern Online Learning website or <a href="http://www.se.edu/academics/general-information/students-rights/">http://www.se.edu/academics/general-information/students-rights/</a></p> <p><b>Academic Integrity:</b> Available through the Southeastern Online Learning website or <a href="http://www.se.edu/dept/student-life/files/handbooks/2015-2016-Student-Handbook.pdf">http://www.se.edu/dept/student-life/files/handbooks/2015-2016-Student-Handbook.pdf</a></p> <p>There is a zero-tolerance policy concerning plagiarism and/or duplication of another individual's work. Besides making you feel horrible, you will receive a zero and the policy will be enforced under the guidelines of the Academic Honesty Policy for the University. Students are expected to work individually and turn in their own work. Any violation of academic honesty will be reported to the Office of Student Affairs. The policies regarding academic misconduct are set forth in the institution's Student Code of Responsibilities and Conduct</p>
SPECIAL ACCOMMODATIONS	<p>Any student needing special accommodations due to a disability should contact the Coordinator for Disability Services, GDJ Student Union, Suite 328 or call (580) 745–2392 (TDD# 745–2704). It is the responsibility of each student to make an official request for accommodations to the Coordinator.</p>
AT-RISK STUDENTS	<p>Any student experiencing mental or emotional issues who desires free, confidential, clinical counseling is encouraged to contact the SE Counseling Center at (580) 745–2988 to schedule an appointment during normal working hours Monday – Friday, 8:00 AM to 5:00 PM. For after hours mental health emergencies, please call SE Campus Police at (580) 745–2911 or the Mental Health Crisis Hotline at 1–(800)–522–1090.</p>

EQUAL  
OPPORTUNITY  
STATEMENT

In Compliance with Title VI of the Civil Rights Act of 1964, Executive Order 11246 as amended, Title IX of the Education Amendments of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, and other Federal Laws and Regulations, Southeastern Oklahoma State University does not discriminate on the basis of race, color, national origin, sex, sexual identity, sexual orientation, age, religion, handicap, disability, or status as a veteran in any of its policies, practices or procedures, this includes but is not limited to admissions, employment, financial aid, and educational services.

TITLE IX OF THE  
EDUCATION  
AMENDMENTS OF  
1972

(20 U.S.C. §1681) states: “No person in the United States, shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving federal financial assistance...” Southeastern Oklahoma State University does not discriminate on the basis of sex in its education programs or activities, in compliance with Title IX and the U.S. Department of Educations regulations at 34 C.F.R. §§86.1 et seq. Individuals who believe they have been discriminated against on the basis of sex may contact S.E.’s Title IX Coordinator at (580) 745–3090, titleix@se.edu, or PMB 2750.