

Winter 2019
Math 407: Upper Level Math Honors Seminar
Wednesdays 2:00 - 2:50, Samuelson 138 (Computer Lab)

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Office Hours: M-F 9:00 - 9:50

1 Course Goals

The goal of this course is to introduce you the Singular Value Decomposition of matrices, and give you a chance to investigate how it works and/or how it is useful in applications. In addition, I hope that you'll see how useful linear algebra can be. There is much more to linear algebra than simply solving linear systems (as important as that is - and it really is).

2 Grades

To earn a C in the class, you must arrive on-time and be in-class on at least 7 class days, **AND** solve one of the C problems from the list of problems handed out on the first day of class. You are expected to solve C problems by yourself, and a solution means a write-up and an in-class presentation of your solution. Presentations of C problems will start on the third class day.

To earn a B, you must earn a C **AND** solve a B problem. You may work with one of your classmates on a B problem. As with C problems, a solution means a write-up and an in-class presentation of your solution. Presentation of B problems will begin once the majority of C problems have been solved and presented.

Finally, to earn an A, you must earn a B **AND** solve/present work on an A problem or project. You may work with one of your classmates on an A problem. Subject to my approval (and at least three weeks notice), you may choose an A problem or project that is not on the list. Presentation of A problems will hopefully begin by the last class day, and will continue into the **final exam period on Friday, March 15, beginning at noon**. Because the powers-that-be have said so, we are supposed to have a "meaningful" end-of-class experience during the final exam period, and presentation of A problem/projects is a good goal for that time period.

If you do not earn a C, then your grade will be a D.

Students with disabilities who wish to set up academic adjustments in this class should give me a copy of their "Confirmation of Eligibility for Academic Adjustments" from the Disability Support Services Office as soon as possible so we can discuss how the approved adjustments will be implemented in this class. Students without this form should contact the Disability Support Services Office, Bouillon 140 or ds@cwu.edu or 963-1202.