

Linear Algebra Project

Description

This project is intended to be an individual investigation of the application of linear algebra to a topic of your choice. You are tasked with the responsibility of identifying something that linear algebra can be used for, developing an understanding of that application, and writing a typed exposition of the application in two forms:

- 1) A complete report detailing the application, how, and why linear algebra is used. This can be as long as it needs to be, but reports longer than 5 pages might not be graded until after final exams.
- 2) A stand-alone summary that gives an overview of (1). This can be either a paper not longer than one page or a single PowerPoint slide. (If the latter, note that it may be used during class in future semesters)

Topics

The topic can be any application of linear algebra. This may be an application to a specific real world problem, an application to a general type of problem, or an application to something in mathematics not covered in linear algebra. Topics must be approved by the instructor.

Resources

You may use any and all resources available to you (including Wikipedia). However, everything in your exposition (#1) must be either justified or cite a reputable source (e.g. not a webpage).

Evaluation

This project is worth 5% of your course grade and will be evaluated using the critical inquiry rubric for the first two learning objectives in goal #1.

The proposal is due on April 4th, with the final report due on April 23rd. Submissions turned in sufficiently early will be returned with feedback but not a grade in order to provide the opportunity to make changes.

Name: _____ Linear Algebra Project, Spring 2014

Project Topic Proposal
(To be completed by April 4th)

Proposed Title of topic: _____

Brief description: _____

Potential resources:

- 1) _____
- 2) _____
- 3) _____

Approved Conditionally approved (see comments). Unapproved (See me immediately to choose another topic)

Project Submission
(To be completed by April 23rd)

Title: _____

Brief description: _____

Resources used:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____