

MATH 111 - Linear Math Modeling

Spring 2018

Wednesday 4:30 – 7:10 pm LSH 211

January 22 – May 16, 2018

Instructor: David Haile**Hours:** By Appointment**Email:** dhaile8@gmu.edu

Text & Materials: Finite Mathematics and Its Applications, 12 e, by Goldstein, Schneider and Siegel. You can purchase the e-book instead of the text. You can load the e-book on your computer and bring your laptop or tablets to class. We will also use TI-83/84 graphing calculators. The website for purchasing MyMathLab is:

<https://www.pearsonmylabandmastering.com/northamerica/?cc>

Course Description: This course meets the quantitative reasoning requirement, one of the Foundation requirements of the Mason Core. The goal of the Foundation requirement is to help ensure that students are equipped with the tools and techniques necessary to succeed in college and throughout their lives and careers.

Final Exam: Wednesday, May 9, 4:30am-7:15pm.

Grading: The final grade will be calculated as follows: the two best out of three exams worth 25% each. The final exam, which is comprehensive, will make up 40% of the semester grade. The remaining 10% will be composed of homework. Homework will be assigned online using MyMathLab. The course id for the class is **haile99536**.

The grading scale will be as follows:

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|----------|---|
| 90 - 100 | A |
| 80 - 89 | B |
| 70 - 79 | C |
| 60 - 69 | D |
| Below 60 | F |

All exams will be announced ahead of time. I will not allow any makeup exams. However, I will throw out the lowest exam score. If you miss an exam, that will be the exam that will be dropped.

Homework: All homework is assigned online in MyMathLab. You will have one week to complete the homework after we cover the section. After the allotted time, the homework will be locked out and will not allow students to get into that section. Failure to complete the homework on time will result in getting a zero for that section.

Technology: You are welcome to use calculators for class work, homework, and some exams. Our textbook includes notes on the use of TI-83/84 calculators. Matrix computations on exams are to be performed manually. In addition to calculators, we will use Microsoft Excel, and Wolfram Alpha for calculations in class.

Honor Code: Cheating on an exam is grounds for failing the course. Cheating applies to both those giving and receiving assistance and will result in getting an F for the course. Cell phones must be turned off during class. Please refer to the college catalog for guidelines of academic integrity.

Disability statement: If you are a student with a disability and you need academic accommodations, please see me and contact the Office of Disability Services at 703-993- 2474. All academic accommodations must be arranged through that office. We will cover the following sections in this class.

- Linear equations and straight lines (**Chapter 1:** 1.1, 1.3, 1.4, 1.5, **Exam 1**)
- Matrices (**Chapter 2:** 2.1, 2.2, 2.3, 2.4, 2.5, 2.6 **Exam 2**)
- Markov Processes (**Chapter 8:** 8.1, 8.2, 8.3 **Exam 3**)
- Difference equations & mathematical models (**Chapter 11:** 11. 1, 11.2, 11.3 **Final Exam**)

Learning environment: Please turn off cell phones when in class. Making phone calls, texting, and surfing the web during class is not allowed. The use of cell phone calculators or other electronics is absolutely prohibited during quizzes and tests. Talking while the instructor is lecturing is extremely disruptive and interferes with the learning experience of nearby students. If you don't understand a concept or have difficulty with a problem, feel free to ask questions.