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## MAS4105

### MAS4105 – Linear Algebra 1

**Instructor:** Zachary Hamaker (ZH)

**TA:** Jamie Scott (JS)

**Meetings:** MWF 1:55-2:45pm (ZH) and T 9:35-10:25am (JS)

**Location:** 3 Matherly Hall

**Emails:** [zhamaker@ufl.edu](mailto:zhamaker@ufl.edu) (ZH) and [hiwhoareyou1@ufl.edu](mailto:hiwhoareyou1@ufl.edu) (JS)

**Offices:** 430 Little Hall (ZH) and 431 Little Hall (JS)

**Office Hours:** TBD

**Main Text:** *Linear Algebra Done Wrong* by Sergei Treil (available free [online](#))

**Supplementary Text:** *Linear Algebra 4ed* by Jim Hefferon (available free [online](#))

#### Course Objectives:

We will cover core topics in linear algebra, including matrix algebra, vector spaces, linear transformations, concepts of dimension, change of basis, inner products, the determinant and eigenvalues/spaces/vectors. These topics correspond roughly to the first six chapters in our text. Students participating in the class will:

- master computational and theoretical aspects of the aforementioned mathematical topics
- develop mathematical independence and maturity
- develop an appreciation of the value of mathematical abstraction; that sometimes making the beginning of an idea more complicated makes the conclusion **simpler**
- improve their mathematical communication skills, both written and verbal
-

work effectively with others to solve challenging problems

- feel valued for their contributions to the class and its environment

These goals will be supported by me and Jamie but also by you. By participating in this class, I expect your best available effort mathematically, and also in supporting the other members of our classroom community. My goal is that you find this class very rewarding.

### **Expectations:**

In order to achieve these goals, participants in this course are expected to:

- read the course textbook
- work collaboratively on work sheets in class
- be respectful of each other
- complete written homework (available in the [Assignments](#) section)
- give the best effort they can within the context of their other needs

Additionally, I encourage you all to collaborate extensively outside of class.

### **Technology:**

Written homework will be submitted as a PDF through Canvas. We will also have a class Discord server that I will be participating in extensively.

### **Evaluation:**

We will have three main types of evaluation: written homework, quizzes and exams. Homework will include some computational problems, but will mostly focus on developing mathematical communication skills and enhancing understanding of core linear algebra concepts. Quizzes will be brief but frequent to encourage the development of computational skills and consistent effort. Exams will feature computational in-class components and brief take-home portions with a more theoretical focus.

### **Grading:**

Grades will be computed using the following rubric:

Homework: 30%

Quizzes: 10%

In-class midterms: 20%

Take-home midterms: 15%

Final exam: 25%

The final grades will be curved, but will be no tougher than the 10-point scale: 90%–100%

will be some form of A, 80–90% will be at least some form of B, etc. After each midterm, you will receive a projected grade.

If you have a disagreement with the grading of one of your solutions, I ask that you submit a written request for reconsideration within one week.

Grading will be in accord with the UF policy stated at <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>.

### Additional information

**Honor code:** UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” The [Honor Code](#) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor.

**Class Attendance:** Attendance will not be monitored. Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at:

<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>.

**Accommodations for Students with Disabilities:** Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <https://disability.ufl.edu> (Links to an external site.)) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

**Online Evaluations:** Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at <https://gatorevals.aa.ufl.edu/students/> (Links to an external site.). Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/> (Links to an external site.). Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/> (Links to an external site.).

**Complaints:** The official UF policy for filing a complaint about the course may be found [here](#).

### Contact information for the Counseling and Wellness

**Center:** <http://www.counseling.ufl.edu/cwc/Default.aspx>, 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

**U Matter, We Care:** Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact [umatter@ufl.edu](mailto:umatter@ufl.edu) so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.

**Department diversity statement:**

The Mathematics Department is committed to diversity and inclusion of all students. We acknowledge, respect, and value the diverse nature, background and perspective of students and believe that it furthers academic achievements

It is our intent to present materials and activities that are respectful of diversity: race, color, creed, gender, gender identity, sexual orientation, age, religious status, national origin, ethnicity, disability, socioeconomic status, and any other distinguishing qualities.



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