

Math 1553

Sections G1-G5 / H1 – H5

Georgia Tech, Fall 2018

Dan Margalit

Download the Piazza
app now if you can!

Soak Zone!

The first 10 rows of the lecture hall are in our Soak Zone. If you are sitting in the Soak Zone, prepare to get completely soaked by linear algebra knowledge.



Me

About Me



DOB 03/06/1976

Sex M

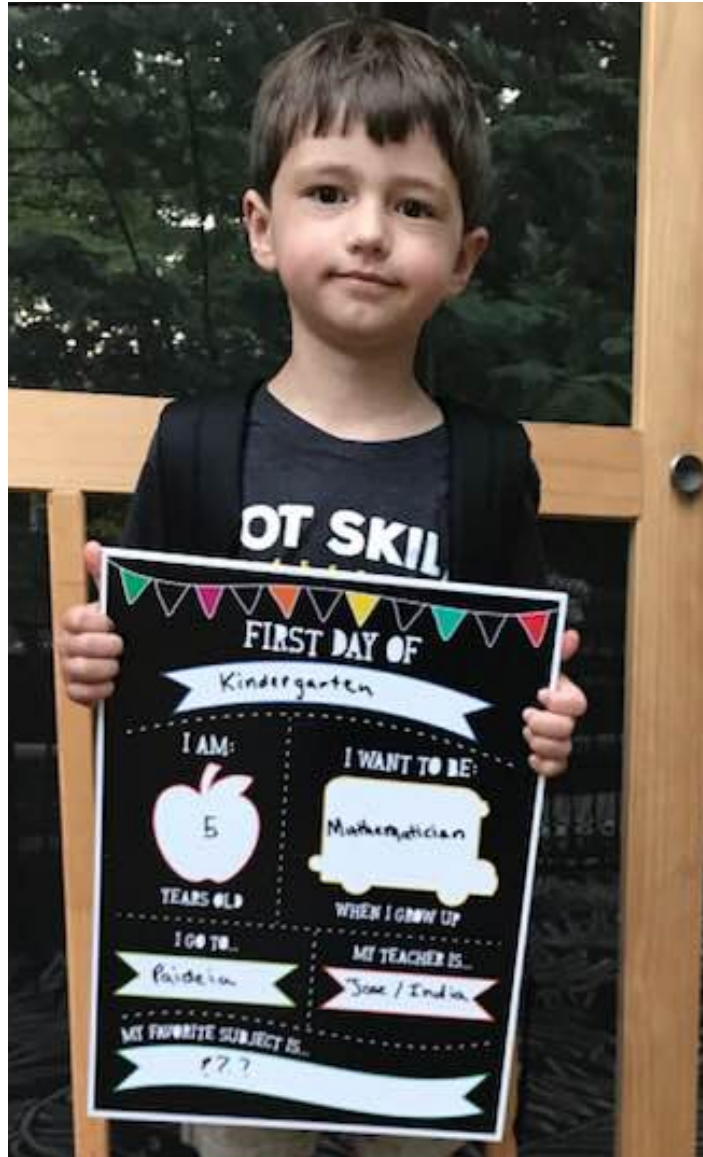
Eyes HAZ

Hgt 5'-10"

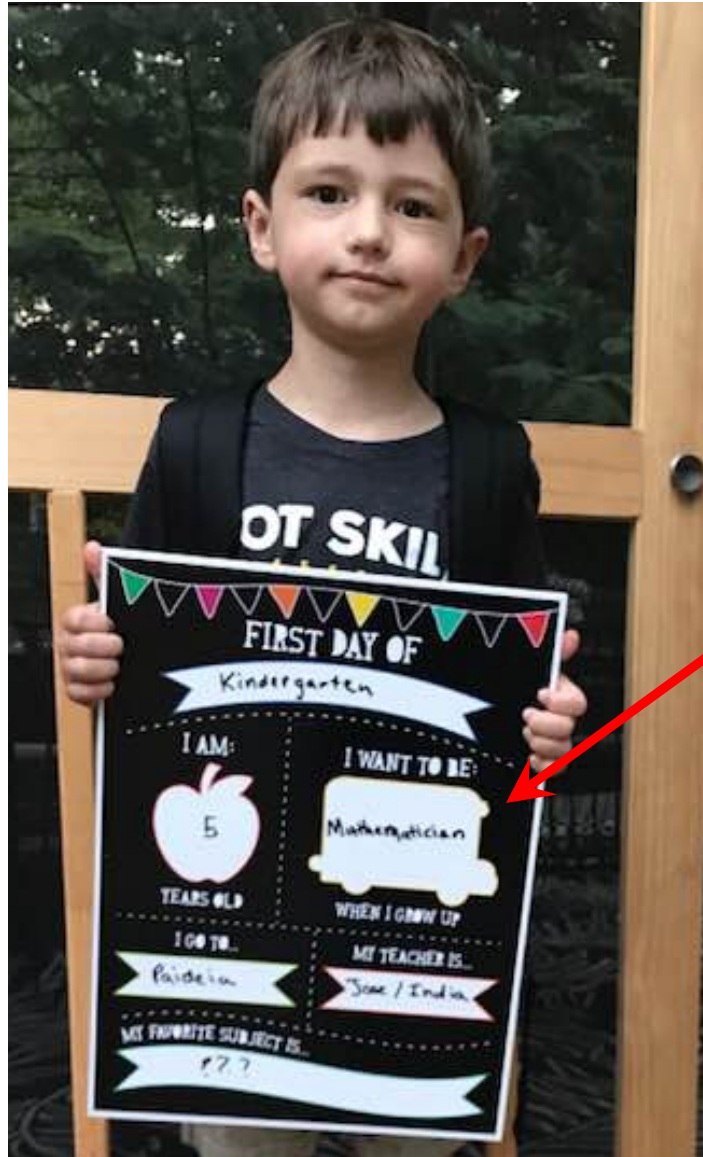
Wgt 150 lb

Donor ❤️

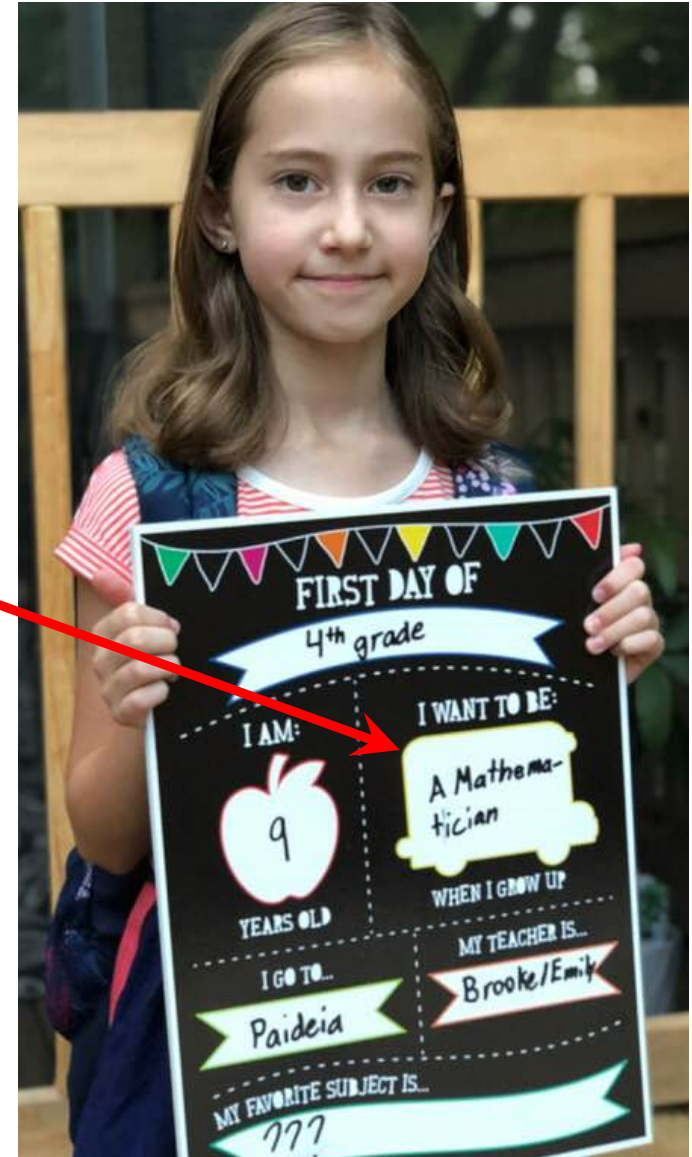
More About Me



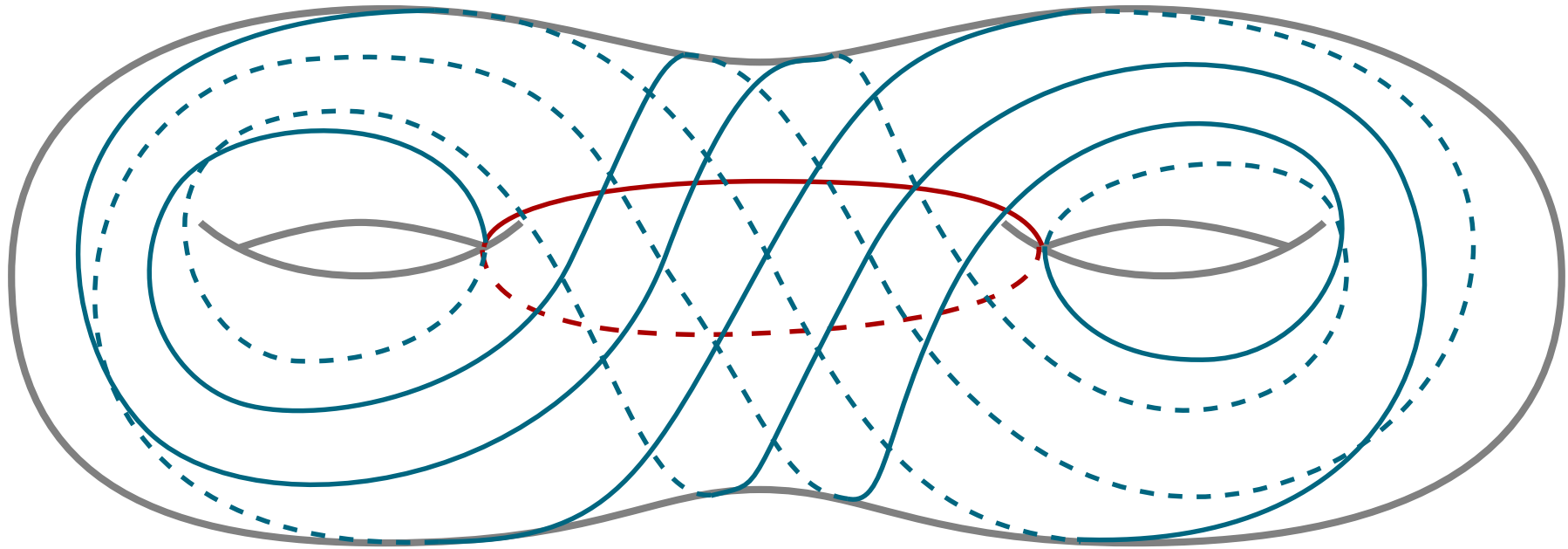
More About Me



winning

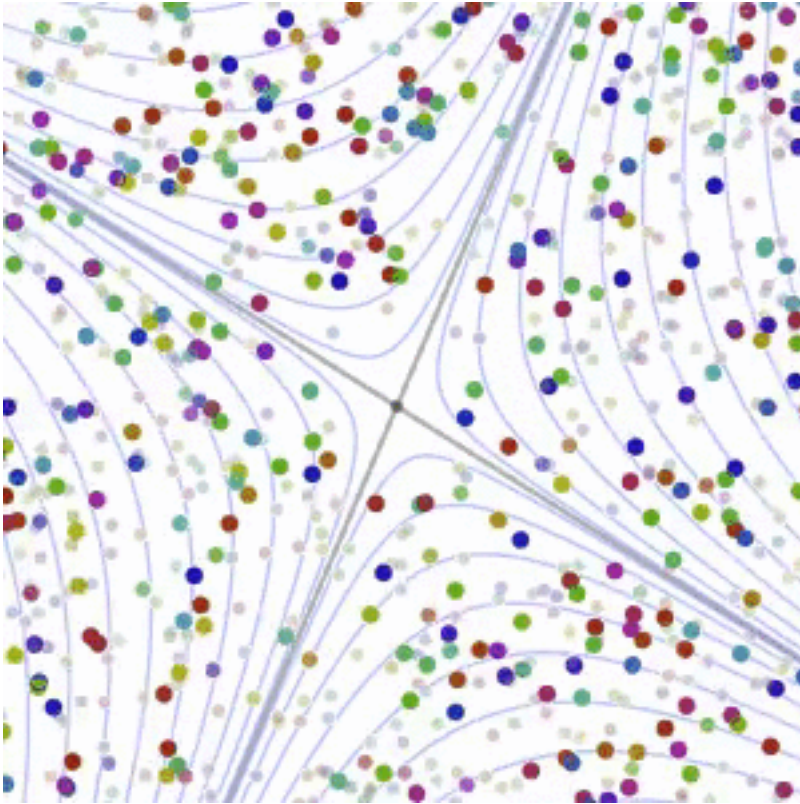


Even More About Me



Textbook

Textbook



Interactive Linear Algebra

Dan Margalit & Joe Rabinoff

The textbook is **free** and **online**.

Lay & MyMathLab are resources you can buy. I will **not** use them.

Recitation

Recitation

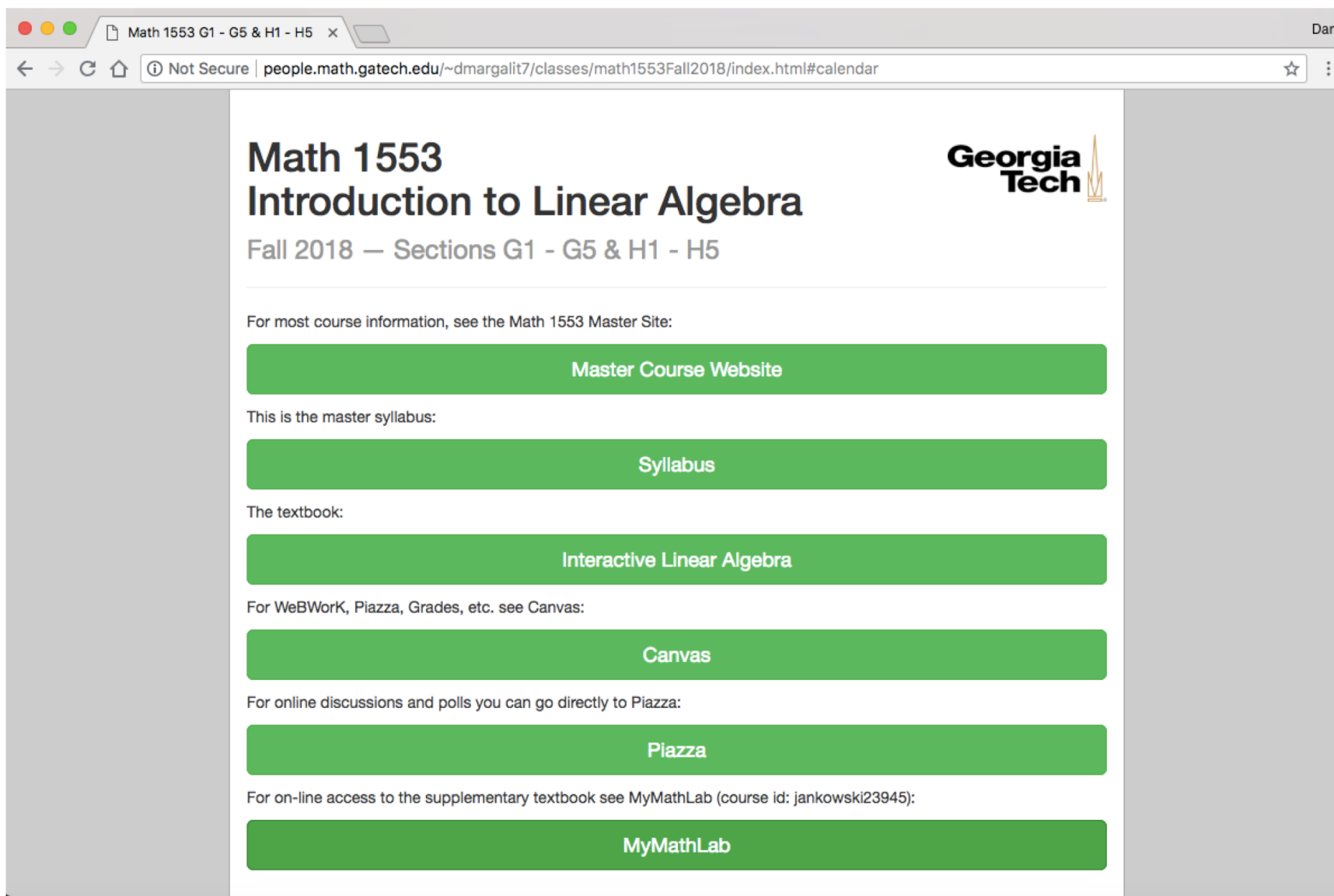
On Friday you have recitation with a TA in a group of about 30. Quizzes and Midterms happen in recitation.

Web sites

Web Sites

- **Math 1553 Master Course Web Site**
 - Run by course coordinator
 - Contains: common syllabus, how to get help, advice, etc.
- **Math 1553 G/H Course Web Site**
 - Run by me
 - Contains: info about office hours, TAs, recitation, calendar, slides, materials...
- **Canvas**
 - Contains: Grades
 - Links to WebWork (homework) & Piazza (discussion)
 - Front page has links to everything else mentioned above

Math 1553 G/H Course Web Site



The image shows a browser window with the following details:

- Tab: Math 1553 G1 - G5 & H1 - H5
- Address Bar: Not Secure | people.math.gatech.edu/~dmargalit7/classes/math1553Fall2018/index.html#calendar
- Page Title: Math 1553 Introduction to Linear Algebra
- Page Content: Fall 2018 — Sections G1 - G5 & H1 - H5
- Georgia Tech logo
- Text: For most course information, see the Math 1553 Master Site:
- Green button: Master Course Website
- Text: This is the master syllabus:
- Green button: Syllabus
- Text: The textbook:
- Green button: Interactive Linear Algebra
- Text: For WeBWork, Piazza, Grades, etc. see Canvas:
- Green button: Canvas
- Text: For online discussions and polls you can go directly to Piazza:
- Green button: Piazza
- Text: For on-line access to the supplementary textbook see MyMathLab (course id: jankowski23945):
- Green button: MyMathLab

Math 1553 G/H Course Web Site

Math 1553 G1 - G5 & H1 - H5 x Dan

Not Secure | people.math.gatech.edu/~dmargalit7/classes/math1553Fall2018/index.html#calendar

Instructor


Professor Dan Margalit
Lecture time MW 11:15-12:05 (Sections G1-G5) and 12:20-1:10 (Sections H1-H5)
Lecture location Renewable Bioproducts Institute Paper Tricentennial Building 109
Office Skiles 234
Email margalit@math.gatech.edu
Office hours Monday 1-2, Wednesday 3-4, and by appointment

Teaching Assistants

Recitation time F 11:15-12:05 (Sections G1-G5) and 12:20-1:10 (Sections H1-H5)
Recitations
G1: Skiles 271, Arjun Patel
G2: Skiles 371, Talha Khawaja
G3: Clough 423, Athreya Gundamraj
G4: Skiles 368, Olivia Wogon
G5: Skiles 254, James Anderson
H1: Skiles 268, Jesse Jiang
H2: Skiles 270, Arjun Patel
H3: Skiles 271, Jacob Peloquin
H4: Skiles 308, Talha Khawaja
H5: Skiles 368, Hamed Mousavi
TA Office Hours
Arjun Patel, tba
Talha Khajawa, tba
Athreya Gundamraj, tba
Olivia Wogon, tba
James Anderson, tba
Jesse Jiang, tba
Jacob Peloquin, tba
Hamed Mousavi, tba

Textbook

The textbook for the course is *Interactive Linear Algebra*, by Dan Margalit and Joe Rabinoff. Click on the icon below.



Math 1553 G/H Course Web Site

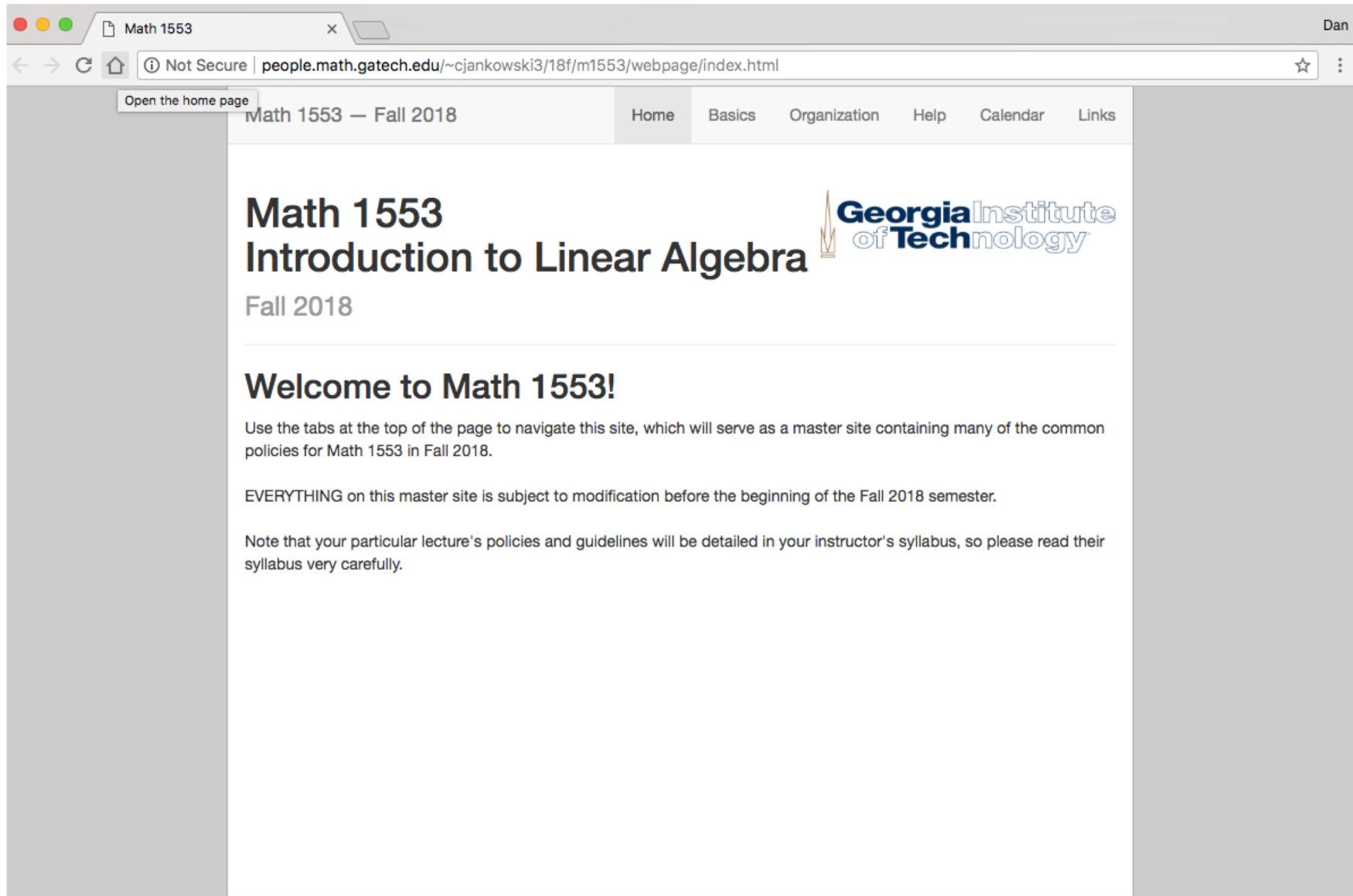
Math 1553 G1 - G5 & H1 - H5 x Dan

Not Secure | people.math.gatech.edu/~dmargalit7/classes/math1553Fall2018/index.html#calendar ☆

Course Calendar and Materials

Date	Topic	Materials	WeBWork	Quiz/Exam	Remarks
M Aug 20	Overview, Chapter 1		-	-	-
W Aug 22	2.1 Systems of linear equations		-	-	-
F Aug 24	Recitation: Ch. 1 and 2.1		Warmup	-	-
M Aug 27	2.2 Row reduction		-	-	-
W Aug 29	2.2 (continued) and 2.3 Parametric form		2.1	-	-
F Aug 31	Recitation: 2.2 and 2.3			Quiz: 2.1	-
M Sep 3	<i>Labor Day</i>				
W Sep 5	3.1 and 3.2: Vectors, vector equations, and spans		2.2 and 2.3	-	-
F Sep 7	Recitation: 3.1 and 3.2	-	-	Quiz: 2.2 and 2.3	-
M Sep 10	3.3 Matrix equations		-	-	-
W Sep 12	3.4 Solution sets		3.1 and 3.2	-	-
F Sep 14	Recitation: 3.3 and 3.4	-	-	Quiz: 3.1 and 3.2	-
M Sep 17	3.5 Linear independence		-	-	-
W Sep 19	3.6 Subspaces		3.3 and 3.4	-	-
F Sep 21	Midterm 1: through 3.4	-	-	Midterm 1	

Math 1553 Master Web Site



The image shows a browser window displaying the Math 1553 Master Web Site. The browser's address bar shows the URL `people.math.gatech.edu/~cjankowski3/18f/m1553/webpage/index.html`. The page title is "Math 1553 — Fall 2018". The navigation menu includes "Home", "Basics", "Organization", "Help", "Calendar", and "Links". The main content area features the title "Math 1553 Introduction to Linear Algebra" and the Georgia Institute of Technology logo. Below the title, it says "Fall 2018". A section titled "Welcome to Math 1553!" contains the following text:

Use the tabs at the top of the page to navigate this site, which will serve as a master site containing many of the common policies for Math 1553 in Fall 2018.

EVERYTHING on this master site is subject to modification before the beginning of the Fall 2018 semester.

Note that your particular lecture's policies and guidelines will be detailed in your instructor's syllabus, so please read their syllabus very carefully.

Canvas


The screenshot shows a web browser window with two tabs: "Welcome to Math 1553 Section G" and "Math 1553: Help". The address bar shows the URL: <https://gatech.instructure.com/courses/26504/pages/welcome-to-math-1553-section-g>. The page title is "MATH-1553-G > Pages > Welcome to Math 1553 Section G!".

On the left is a dark blue sidebar with navigation icons and labels: Home, Account, Dashboard, Courses (highlighted), Calendar, Inbox, Commons, and Help.

The main content area has a breadcrumb "MATH-1553-G > Pages > Welcome to Math 1553 Section G!". Below this is a navigation menu with items: Home, Announcements, Assignments, Grades, People, GaTech Roster, Quizzes, Piazza, Pages (highlighted), Discussions, Files, Syllabus, Outcomes, Modules, Conferences, Collaborations, and Settings.

At the top right of the page content, there are several buttons: "View All Pages" (orange), "Front Page" (grey), "Published" (green with a checkmark), and "Edit" (grey with a pencil icon). There is also a user name "Dan" in the top right corner.

Welcome to Math 1553 Section G!



In Canvas you will find your Grades, the Class roster, our Piazza page, and WeBWork (under assignments).

Other important links:

- [Master Course web site](#) and [Syllabus](#)
- [Class web site](#) with [Office hours](#) and [Course calendar / materials](#)
- [Math Lab](#) and [Tutoring](#)
- [Interactive Linear Algebra](#) (our textbook)
- [Slide deck](#) and [Reference sheet](#) for the whole course
- [MyMathLab](#) (course id: jankowski23945)

Piazza

The screenshot shows the Piazza web application interface. At the top, a Safari browser window displays the URL `t-square.gatech.edu`. Below the browser, a navigation bar contains several tabs: `My Workspace`, `MATH-1553-E1,E2,E3,E4,E5`, `MATH-1553-H,J SPR16`, `MATH-1553-HP1,HP2 FALL15`, and `My Active Sites`. A dropdown menu for `View Site As:` is set to `- Select Role -`. A `Logout` button is visible in the top right.

The main content area is titled `PIAZZA` and includes a sub-header with `1553`, `Q & A`, `Resources`, `Statistics`, and `Manage Class`. Below this, there are tabs for `polls`, `hw1`, `hw2`, `hw3`, `hw4`, `logistics`, and `other`. A `Note History` progress bar is also present.

On the left side, a `COURSE TOOLS` sidebar lists various navigation options: `Home`, `Roster`, `Email`, `Gradebook`, `Webwork`, `Piazza`, `Site Info`, `Statistics`, and `Help`.

The main content area displays a list of posts. The first post is titled `Search for Teammates!` and is dated `8/14/17`. The second post, highlighted in yellow, is titled `Latex Editor` and is dated `Yesterday` at `9:21PM`. The text of this post reads: "I'd like to point out the Latex equation editor. When you are typing a message, click on the button that says fx." Below the text is a mathematical equation:
$$\sum_{i=1}^n i = \frac{n(n+1)}{2}$$
 The post also includes tags for `logistics` and `other`. Below the post, there are buttons for `edit` and `good note` (with a count of `0`), and an `Updated` status.

Below the post list, there is a section for `followup discussions` with the text `for lingering questions and comments`. A sub-section titled `Start a new followup discussion` contains a text input field with the placeholder text `Compose a new followup discussion`.

WeBWork

MAIN MENU

- Courses
- Homework Sets**
- User Settings
- Grades
- Instructor Tools
 - Classlist Editor
 - Hmwk Sets Editor
 - Library Browser
- Statistics
- Student Progress
- Scoring Tools
- Email
- File Manager
- Course Configuration
- Help
- Report bugs

Math-1553_FALL17

Homework Sets

Name	Status
<input type="checkbox"/> 0.0 Warmup	will open on 08/21/2017 at 12:00am EDT

Clear

Download PDF or TeX Hardcopy for Selected Sets

Course Info Edit

Page generated at 08/19/2017 at 04:35pm EDT
WeBWork © 1996-2016 | theme: math4 | ww_version: 2.12 | pg_version: 2.12 | The WeBWork Project

Under Assignments
In Canvas.
It will work on your
second attempt.

Your first assignment

Mathematical Autobiography

The first assignment is to post a mathematical autobiography on Piazza.

The folder is `bio` and the subject is your name.

Include:

- A recognizable photo of you
- Any interesting/identifying things about you that you'd like to share
- Some important moments in your relationship with Math

Assessment

Grades!

Grades

Category	Percentage
Polls	5%
Homework	5%
Quizzes	15%
Midterms	45%
Final Exam	30%

90% is an A, etc. Target scores may be moved in your favor.

If you score higher on the Final than your lowest Midterm then the Final is worth 37.5%...

Exams

Exam	Date
Midterm 1	Sep 21
Midterm 2	Oct 19
Midterm 3	Nov 16
Final Exam	Dec 11 @ 6pm

Notify me ASAP if you have a conflict.

No calculators, etc. on the exams.

Quizzes

- There are 7 quizzes, on Fridays.
- Lowest quiz grade dropped
- Typical timing:

	Mon	Tue	Wed	Thu	Fri
<i>Week N</i>	Class		Class HW due on Week N-1 material		Quiz on Week N-1
<i>Week N+1</i>	Class		Class HW due on Week N material		Quiz on Week N

Homework

- WeBWork
- Generally due on Wed at 11:59 pm
- Normally as many tries as you want, but there are a handful of problems with a limited number of tries. The problem will say.
- One you get told your answer is correct, you are done with that problem.

Polls

- Piazza polls during class
- Lowest three dropped
- Graded only for participation
- To get credit you must sign in to Piazza with your GTid
- Answering a poll from any place other than the lecture hall is considered a breach of the academic honor code.

Other stuff

Laptop Free Zone

Laptops are not permitted in lecture, unless authorized by me.



Some Things that Make Me Happy

- Help setting up and taking down the whiteboard
- Advance notice if you need to come late / leave early
- Not using your phone in class
- Enthusiasm
- Email / online etiquette
- Saying hi if I see you out and about
- When you answer a question

Some Things that Make Me Happy

- Help setting up and taking down the whiteboard
- Advance notice if you need to come late / leave early
- Not using your phone in class
- Enthusiasm
- Email / online etiquette
- Saying hi if I see you out and about
- When you answer a question

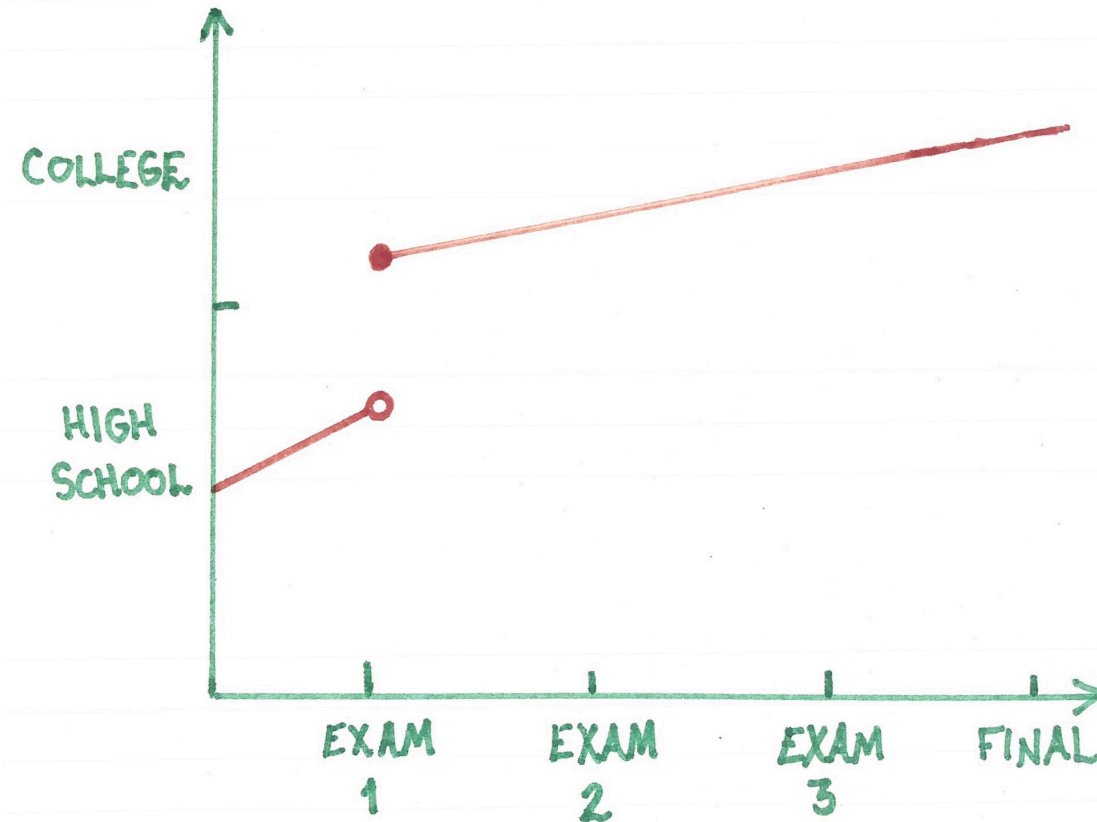


Some Things that Make Me Happy

- Help setting up and taking down the whiteboard
- Advance notice if you need to come late / leave early
- Not using your phone in class
- Enthusiasm
- Participation
- Email / online etiquette
- Saying hi if I see you out and about



Difficulty of the Course



After the first exam, definitions will become fundamentally important!