

## Autumn 2023: Syllabus for LinA

Prof. Jonathan L.F. King  
University of Florida, Gainesville FL 32611-2082, USA

### For all of my courses

[Specific [Linear Algebra](#) info starts on the next page.]

Who? Prof. King Address: [squash@ufl.edu](mailto:squash@ufl.edu)

Office: 402 Little Tel: 352-294-2314

Math Dept: 3<sup>rd</sup> floor Little Dept.Tel: 352-294-2350

To find my office (402 Little Hall; Top floor, NE corner) just “[Maximize  \$x\$ ,  \$y\$  and  \$z\$](#) .” (Note: I do *not* pick up tel. messages remotely, but do read email multiple times a day. It is almost always better to email me first, before telephoning my office.)

My [Office hour schedule](#) may change slightly during the semester. Other days/times may be available by appointment, sometimes [via Zoom](#).

**[Class attendance is required, and is non-trivial part of a student's CP, Class participation, grade.](#)**

**Contacting Prof.K.** If you need to get an important message to me (e.g, you'll be missing an in-class exam), it is *particularly important* that you **email me from your UF ed-dress** as soon as possible; preferably several weeks or days before the exam; several hours before, if you didn't know in advance.

I do *not* pick up office phone messages remotely, so it is important that you email me. If urgent, you should also tel. the math dept, **352-294-2350**, and they can contact me at home. The secretaries can also put a note in my mailbox if you request it. [All these tel.numbers are *wired phones*; they do not take text-messages.]

**IMPORTANT:** I will primarily use **email** for contacting students, *not* Canvas-mail. I ask that students read email *at least* twice a day morning/evening (excepting for religious observance).

**IMPORTANT:** Students will be typesetting solutions to problems and will need a real **computer**; a cellphone does not suffice. Also, students will need access to a **printer**, as some of the typeset assignments will need to be handed-in on paper (not electronically).

As some office-hours will be via **Zoom**, students will need Zoom-capability.

### Prof.K's clickable links:

- [Teaching Page](http://squash.1gainesville.com/teaching.html) Has important info for *all* my courses. Gives links to *Putnam competition*, *Robert Long essay competition*, links to the free mathematical typesetting language  $\text{T}_{\text{E}}\text{X}/\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ .

The Teaching Page also has an extensive list of:  
Usually Useful Pamphlets.

### Our LinA Webpage:

<http://squash.1gainesville.com/course/LinA.curr.html> Info for the current semester, as well as links to previous versions (see [Nostalgia](#)) of LinA, containing previous exams and microquizzes, for your studying pleasure!

### Prof. King's page at UF

<https://people.clas.ufl.edu/squash/> has a link to the *Robert Long essay competition*.

### Prof.K schedule & office hours

<http://squash.1gainesville.com/info.jksched.html>

### Math Dept. homepage

<http://math.ufl.edu/> . Searchable. A wealth of information on applying to grad school, seminars, conferences, faculty, staff, grad listings, tutors for hire.

### University resources, clickable:

- \* [UF syllabus policy](https://people.clas.ufl.edu/squash/univ-syllabus-policy/)
- \* [Accommodation for students with disabilities](https://disability.ufl.edu/students/get-started/)
- \* [UF Teaching Center](https://academicresources.clas.ufl.edu/) has free tutoring, both in-person and via zoom.
- \* [Writing Studio](https://writing.ufl.edu/writing-studio/) 2215 Turlington, 352-846-1138.
- \* The UF [Help desk](http://helpdesk.ufl.edu/) 352-392-4357.
- \* [End-of-Semester student evals of professors](https://gatorevals.aa.ufl.edu/students/)

**LOR: Letter-of-recommendation.** I base LORs substantially on how a student “thinks on his/her feet”

I require **two** courses with me, at least one of which is *proof-based*, as well as the student actively participating in class. (Occasionally, one course may suffice if it is a **graduate course** or a **Special Topics** course, e.g, my MATHEMATICAL CRYPTOGRAPHY course.)

**Microquizzes.** There will be some number of “pop” (unannounced) microquizzes (**MQ**), each worth 30 points. (Just handing-in the MQ with name and ordinal earns 5 points.)

MQs never occur on religious holidays; **email me** of all such religious dates by the first Wedn. after Add/Drop.

Usually, a pop-quiz has a single, easy question. I use them partly for attendance, and checking that an idea from the previous class caught on.

IMPORTANT: I *drop* the lowest microquiz score. AND: There is **No makeup** for the first missed MQ, regardless of reason; that is what the dropped-score is for.

If a 2<sup>nd</sup> MQ is missed, I may give a make-up, if there was an emergency or if I knew in advance (e.g, you are giving a talk at a conference, and you let me know well in advance). □

**Class Archive.** We will all use our **LinA Archive**, a LISTSERV, to communicate to the whole class.

Once Add/Drop has ended, I will email out how to post-to/read-from our **Archive**, which plays the role of a **LinA Wikipedia** that students build during the semester, acting as a reference for everyone in class.

Students will be posting problem-solutions to the Archive, as part of their CP (Class Participation) grade.

**Canvas.** Canvas will be used for recording grades, but not much else. We will primarily use *email* and our class Archive (a LISTSERV) to communicate with each other outside of class.

**End-of-Semester Games Party!** If COVID *et al* stays low, then we will have an *End-of-Semester Games Party*. (We might also have a “team building” *Games Party* mid-semester.) In the past, the Games Party has been on the last date of class, at Pascal’s Cafe, in the

Christian Study Center of Gainesville  
112 NW 16th Street

**Abbreviations.** MQ, Microquiz. OH, Office-Hour. CP, Class participation. IP, Individual Project. IOP, Individual Optional Project. RLEC, Robert Long Essay Competition.

**RLEC.** Each year, students who like to write short essays may enter the *Robert Long Essay Competition*. The RLEC has a monetary prize and, more importantly, looks great on a CV.

Office Hours: Wednesdays, 7th period [13:55-14:45] in LIT402. See Prof. K’s calendar:  
<http://squash.1gainesville.com/info.jksched.html>

### Specific LinA information:

*LinA is an introduction to Linear Algebra, with emphasis on finite-dim’al spaces.*

**Texts:** The official text is the 5<sup>th</sup>-edition of **Linear Algebra**, by **Friedberg, Insel, Spence**, However, the 4<sup>th</sup> or 3<sup>rd</sup> edition is fine. This is a good text, well worth owning.

A picture of the cover is on our course webpage

Course Page: **LinA**

<http://squash.1gainesville.com/course.LinA.curr.html>

**Course/Room.** MAS4105 3247 (14608) Linear.Algebra.1  
MTWTF6 in MAT 007 Prof. King / Aaron Thrasher

The class meets in **Matherly Hall, room 7** on MTWTF at 6th period, 12:50-13:40.

**CP grades.** Each of Jan., Feb., Mar. (and a part-score for Apr.) has a **CP, Class participation, 45pt** grade based on speaking in class, attending OHs (sometimes via Zoom), and *especially* posting solns to non-trivial problems to our **Archive**. A typical grade is 20.

**MQ grades.** Each microquiz is 30pts Typically, MQs are not announced. A MQ usually has a single routine question. The *lowest MQ score* is dropped; **there is no makeup** for the first missed MQ.

*The classday following an in-class exam usually has an MQ with a slight variation of a question from the exam.*

**NOTE:** There will be a MQ the classday before, and the classday after, Spring Break.

(continued...)

Exams, Autumn 2023: Each of the 3 exams is  $\approx 200$ pts.

**IMPORTANT:** Occasionally an exam needs to be moved a class-day *later*, or a class-day *earlier*. Since that is a class-day, I do *not* [barring extenuating circumstances] give a makeup if you miss class and the exam that day.

**IMPORTANT:** There is a MQ on the classday after each exam, with a simple question related to the exam.

Class R: Wedn., 27Sep2023.

Class S: Wedn., 25Oct.

Class T: Wedn, 15Nov.

Grade-estimate on Canvas on weekend of 18,19Nov.

There will be MQs on the classdays before and after Thanksgiving Break, 22-25Nov.

Withdraw-date: Monday, 20Nov.

Last classday: Wedn., 06Dec; Games Party!.

*Typeset* LinA **INDIVIDUAL OPTIONAL PROJECT** (**IOP**)  
available morning of 28 November.

Due **Thur, 07Dec. by 2PM**, slid completely under my office door, LIT402.

*Sincerely, Prof. King* [LinearAlg]