

## Spring 2022: Syllabus for LinA

Prof. Jonathan L.F. King  
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### For all of my courses

[Further info specifically for **Linear Algebra** starts on the next page.]

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

Office: 402Little Tel: 352-294-2314

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

Ph.D student JAKE PARK will be assisting. Jake's office is 403 LITTLE HALL (North-east wing of 4<sup>th</sup>-floor).

Jake's webpage

<https://people.clas.ufl.edu/j-park1/>

Due to COVID, some Prof. King's office-hours will be via Zoom. As I am a senior citizen and my wife and I are caregivers for our 104-year-old neighbor, we are cautious concerning COVID.

Teaching will take place in our classroom (not remotely), with the expectation that folks are vaccinated and mask-wearing. For in-class exams, if necessary we may use multiple classrooms, so that students feel comfortable with social distancing.

*Class attendance is required, and is 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 address** 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 **TeX/LaTeX**.

The Teaching Page also has an extensive list of:

Usually Useful Pamphlets.

### Course Page: LinA

- <http://squash.1gainesville.com/course.LinA.2022g.html> has links to previous versions of our course, which contain all of my previous exams for your studying pleasure!

### Prof. King's page at @UF

- <http://people.clas.ufl.edu/squash/> has a link to a description of the *Robert Long essay competition*. However, for coursework, I use the above Teaching Page and Course Page.

### Prof.K schedule & office hours

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

### Math Dept. homepage

- <http://www.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** Broward Hall: <https://teachingcenter.ufl.edu/> 352-392-2010, 352-392-6420.
- \* **Writing Studio** 2215 Turlington, <https://writing.ufl.edu/writing-studio/> 352-846-1138.
- \* The UF **Help desk** 352-392-4357. <http://helpdesk.ufl.edu/>
- \* **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. These will never occur on religious holidays; please **email** 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).  $\square$

**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 Arhcive, 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.

**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 good on a CV.

Office Hours: TBD

### **Specific LinA information:**

*LinA is an introduction to Linear Algebra, with emphasis on finite-dim'l 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.2022g.html>

**Course/Room.** MAS4105 14G8 (15273) Linear.Algebra.1 MTWF4 LIT235 (NE) King/Jake-Park

The class meets in **Little Hall room 235** [North side of the East wing, 2<sup>nd</sup>-floor] on MTWF at **4th** period, 10:40-11:30.

**CP grades.** Each of Jan., Feb., Mar. (and a part-score for Apr.) has a **CP**, **Class participation**, **45**pt grade based on speaking in class, attending OHs (probably via **Zoom**), and especially posting solns to non-trivial problems to our Archive. A typical grade is **20**. For *exceptionally* active students, I may give a grade a bit higher than **45**.

**MQ grades.** Each microquiz is **30**pts. 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 often has an MQ with a slight variation of a question from the exam.*

*(continued...)*

**LinA Exams.** Each of the 3 exams is  $\approx$ 200pts. Each MQ (microquiz) is 30pts; 5pts just for handing it in, with name and ordinal correct. There is also a CP, class participation, grade for each month; a typical grade is 20pts, scored out of 45pts.

There will be an end-of-semester take-home Individual Project that will be due the day after the semester's last class-day. [The Project *may* be optional; I will decide that later in the semester.]

Dates for exams for Spring-semester, 2022:

Class U: **Wedn., 16Feb2022.**

There will be a microquiz on the classday before *Spring Break*, and on the classday after *Spring Break*, **04March** and **14March**. (The dates of SB are March 5-12.)

Class V: **Wedn., 16Mar2022.**

Class W: **Tues., 05Apr2022 (Tuesday).**

Withdraw-date: **Friday, 08Apr2022**

There will be a microquiz on the classday after each exam-day. Occasionally, an exam needs to be moved a classday earlier or a classday later.

Last classday: **Wedn., 20Apr2022.**

Typeset INDIVIDUAL PROJECT (possibly optional): Due **Thursday, 21Apr2022**, slid completely under my office door, LIT402. I will give an *estimate* of current course-grade by the withdraw date of **Frid., 08Apr2022**.

*Sincerely, Prof. King*