

Spring 2022: Syllabus for LinA

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

For all of my courses

[Further info specifically for [Linear Algebra](#) starts on the next page.]

Who? Prof. King Address: squash@ufl.edu

Office: 402Little Tel: 352-294-2314

Math Dept: 3rd 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 4th-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) <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.

- [Course Page: LinA](http://squash.1gainesville.com/course.LinA.2022g.html) <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/) <http://people.clas.ufl.edu/squash/> has 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) <http://squash.1gainesville.com/info.jksched.html>

- [Math Dept. homepage](http://www.math.ufl.edu/) <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/) <https://people.clas.ufl.edu/squash/univ-syllabus-policy/>
- * [Accommodation for students with disabilities](https://disability.ufl.edu/students/get-started/) <https://disability.ufl.edu/students/get-started/>
- * [UF Teaching Center](https://teachingcenter.ufl.edu/) <https://teachingcenter.ufl.edu/> Broward Hall:
352-392-2010, 352-392-6420.
- * [Writing Studio](https://writing.ufl.edu/writing-studio/) <https://writing.ufl.edu/writing-studio/> 2215 Turlington,
352-846-1138.
- * The UF [Help desk](http://helpdesk.ufl.edu/) <http://helpdesk.ufl.edu/> 352-392-4357.
- * [End-of-Semester student evals of professors](https://gatorevals.aa.ufl.edu/students/) <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 30points. 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 2nd 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.

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'al spaces.

Texts: The official text is the 5th-edition of **Linear Algebra**, by **Friedberg, Insel, Spence**, However, the 4th or 3rd 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, 2nd-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**, 45pt 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 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 often has an MQ with a slight variation of a question from the exam.

(continued...)

LinA Exams. Each of the 3 exams is ≈ 200 pts. 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