

Spring 2020: Syllabus for DfyQ

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

[Specific DfyQ info starts on the next page.]

Who? Prof. King Address: squash@ufl.edu
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Math Dept: 3rd 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.)

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 cell-phone 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 DfyQ Webpage:](http://squash.1gainesville.com/course.DfyQ.past.html) Info for the current semester, as well as links to previous versions (see *Nostalgia*) of **DfyQ**, containing previous exams and microquizzes, for your studying pleasure!
- [Prof. King’s page at UF](http://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 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 **DfyQ 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 **DfyQ 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

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. My current **weekly schedule**. (OHs may change slightly during the semester, and other days/times may be available by appointment, sometimes **via Zoom**.)

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

Specific DfyQ information:

Welcome to Spr:2020: MAP2302 0220 (15200)
 Elem Diff Eqns MWF8 [16:05-16:55] Lit207 (CE)

/--- DfyQ SYLLABUS -----\

My PDF notes [on course-webpage], as well as Chapters 1, 2, 4, 6, 7 and the matrix-exponential method of solving systems of DEs from

"Fundamentals of differential equations and boundary value problems" by Nagle, Saff and Snider, 7th edition, Addison-Wesley but ed. 6,7,8, or 9 is ok.

We'll cover Differential-Ops, complex #s, and convolutions earlier than the textbook.

There is a private DiffyQ Archive page, for us to communicate with each other.

I will email the URL at the end of Add/Drop.

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/--- GRADES: Points, below, are approximate -\

DfyQ exams are in-class, calculatorless, closed-book but Open Brain:

- * There are 3 exams, each approximately 200pts.
 - * Some number of microquizzes (each 30pts), usually unannounced.
 - * A CP (class-participation) grade for each month (approx. 45pts); CP grade is based on posting to our Archive, class attendance, and lively participation in class.
 - * An /Optional/ Project at semester's end.
- My DfyQ has no final exam.

CP (class-participation) points come from: ATTENDANCE, speaking in class, helping fellow students, office hours, POSTING TO OUR ARCHIVE. CP points are approx. 45pts for each month.

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HOMEWORK: I do not collect written HW. Rather, a substantial part of your CP grade comes from your posting solutions to the Archive, in complete, grammatical sentences. These are not typically assigned; it depends on your own energy and motivation.

==== DfyQ Exam dates 2020 ====

Class photo day & microquiz Wedn., 15Jan.

*MLK Holiday, No UF Mond., 20Jan.

Cl-W: Wedn., 05Feb.

Microquiz Fri., 07Feb.

Cl-X: Wedn., 26Feb.

Microquiz Fri., 28Feb.

*Spring Break: Sat.,29Feb. - Sat.,07Mar.

Microquiz Mond., 09Mar.

>>>> DUE to COVID-19, the rest of the exam-schedule

I give you a written GRADE ESTIMATE no later Friday, 10Apr., possibly earlier.

Cl-Y: Wedn., 01Apr.

Microquiz Fri., 03Apr.

IOP-Z (Individual Optional Project)
 PDF available: Tuesday, 14Apr. Evening.
 IOP-Z due: Thursday, 23Apr. by 2PM,

Last class & GAMES PARTY!: Wedn., 22Apr.
 at Pascal's cafe
 in the Christian Study Center
 from 11:45AM to 5:30PM.

Sincerely, Prof. King