

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 Eddress: squash@ufl.edu
Office: 402Little Tel: 352-294-2314
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 **TeX/LaTeX**.

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). □

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](#).)

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

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 DifyQ 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