

Spring 2020: Syllabus for **DfyQ**

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

Who? Prof. King Address: squash@ufl.edu
Office: 402 Little Hall 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\$.](#)”

If you need to get an important message to me (e.g. you’ll be missing an 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.]

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 $\text{\TeX}/\text{\LaTeX}$.
The Teaching Page also has an extensive list of: Usually Useful Pamphlets.
- [Course Page: **DfyQ**](http://squash.1gainesville.com/course.DfyQ.2020g.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 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:

- * [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/) Broward Hall:
<https://teachingcenter.ufl.edu/>
352-392-2010, 352-392-6420.
- * [Writing Studio](https://writing.ufl.edu/writing-studio/) 2215 Turlington,
<https://writing.ufl.edu/writing-studio/>
352-846-1138.
- * The UF [Help desk](http://helpdesk.ufl.edu/) 352-392-4357.
<http://helpdesk.ufl.edu/>
- * [End-of-Semester student evals of professors](https://gatorevals.ua.ufl.edu/students/)
<https://gatorevals.ua.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.)

Canvas? I don’t yet know how to use Canvas, but I plan on learning how during the semester.

We will all use our class Archive, a LISTSERV, to communicate to the whole class. Students will be posting many solns to problems, as part of their CP (Class Participation) grade.

End-of-Semester Games Party! It will take place on the last date of class, at Pascal’s Cafe, in the

Christian Study Center of Gainesville
112 NW 16th St., 32603
TEL.: 352-379-7375

Microquizzes. There will be some number of “pop” (unannounced) microquizzes, 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 quiz, regardless of reason; that is what the dropped-score is for.

Under *some* circumstances, I may give you a makeup for a later missed quiz, if: You have a valid reason for missing. And: You emailed me *in advance* (when possible, naturally) that you unavoidably must miss that class. Reiterating, there is no makeup for the first missing microquiz; that is what dropping the lowest score is for.

N.B: There is always a microquiz on the classday after each in-class exam day. ☐

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.

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