Spring 2020: Syllabus for DfyQ
Prof. Jonathan L.F. King
University of Florida, Gainesville FL 32611-2082, USA

For all of my courses:

Who? Prof. King Eddress: 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 eddress 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 typsetting language TeX/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/

* UF Teaching Center
  https://teachingcenter.ufl.edu/
  Broward Hall:
  352-392-2010, 352-392-6420.

* 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.)

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.
For all of my courses:

Prof. JLF King

**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 DiffyQ information:**

Welcome to Spr:2020: MAP2302 0220 (15200)  
Elem Diff Eqns MWF 8:05-16:55 Lit207 (CE)

--- DiffyQ 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.

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

DiffyQ 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 DiffyQ 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.

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.

### DiffyQ Exam dates 2020 ###

Class photo day & microquiz Wedn., 15Jan.

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

Cl-W: Wedn., 05Feb.
Microquiz Fri., 07Feb.

Microquiz Fri., 28Feb.

Microquiz Mon., 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