

## Spring 2019: Syllabus for DfyQ

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Welcome to Spr:2019: MAP2302 3731 Elem.Diff.Eqns MWF9 [16:05-16:55] LIT113 (SW)

Math dept. tel.: 352-294-2350 << IMPORTANT

Prof. Jonathan King squash@ufl.edu (address)

If you need to get an important message to me (e.g, you'll be missing an exam), then BOTH email me and have the secretaries put a note in my mailbox, by telephoning 352-294-2350.

My Office: 402 Little Hall (Top floor, NE corner) 352-294-2314

"Maximize  $x$ ,  $y$  and  $z$ ."

If I am not in the office then it is best to EMAIL me, as I don't remotely pick-up phone messages.

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TEACHING PAGE: <http://squash.1gainesville.com/teaching.html>

Course-webpage: <http://squash.1gainesville.com/course.DfyQ.2019g.html>

Prof. King @UF: <http://people.clas.ufl.edu/squash/>

Math Dept.: <http://www.math.ufl.edu/>

OFFICE HOURS: Grad student Heshan, office Little Hall 473 (west wing, south side)  
heshanaravinda.p@ufl.edu

has office hours:

Mondays and Fridays: 7th period [13:55 - 14:45]

Tuesdays: 5th and 6th periods [11:45 - 13:40]

Prof.King office hour: Mondays, 10th period 17:10-18:00.

Due to leg injury, I am currently (as of 15Jan2019) only doing OHs via appointment.

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Letters-of-recommendation (LORs): I base LORs substantially on how a student "thinks on his feet". Need /TWO/ courses with me, at least one proof-based.

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

My PDF notes [on course-webpage], as well as

Chapters 1, 2, 4, 6, 7 and the matrix-exponential method off solving systems of DEs from

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

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

There is a private DiffyQ Archive page, for us to communicate with each other. I will email you the URL.

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/---- GRADES: The number of points below are approximate --\

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

- \* There will be 3 exams, each approximately 200points.
- \* Some number of microquizzes (each 30points).
- \* A CP (class-participation) grade for each month (approx. 45points); CP grade is based on posting to our Archive, on class attendance, on lively participation in class.
- \* An /Optional/ Project at the end of the semester. My class has no final exam.

CP (class-participation) points come from: Attendance, speaking in class, helping fellow students, office hours, Posting to our Archive. approx. 45points for each month.

There will be some number of "pop" (unannounced) microquizzes, each worth 30points. These will never occur on religious holidays; please >> EMAIL of such holidays by Monday, 14Jan2019. <<

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; that is what the dropped-score is for. (The first microquiz will be Wednesday, 16Jan2019.)

Under /rare/ circumstances, I /may/ give you a makeup for a later missed quiz, if you have a good reason for missing.

There is always a microquiz on the classday after each exam day.  
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/---- More Grades: -----\  
I will give a a written course-grade rough estimate after the 2nd exam, and a more precise estimate after the 3rd exam, before the withdraw date. The latter estimate assumes that you continue to do well on the remaining microquizzes, and continue to post to the our Archive.  
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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.

/----- Exam dates 2019-----Backup/microquiz -----\  
S: Wednesday, 30Jan. Friday, 01Feb.  
T: Wednesday, 27Feb. Friday, 01Mar.

Spring Break: 02-09 March  
Monday, 11Mar.

U: Wednesday, 03Apr. Friday, 05Apr.

IOP (Individual Optional Project)  
PDF available: Morning, Friday, 19Apr.  
IOP Project-V due: 2PM, Thursday, 25Apr.

Last day class & GAMES PARTY!: Wednesday, 24Apr.  
at  
Pascal's cafe  
in the  
Christian Study Center  
112 NW 16th Street (about a 8 minute walk from Little Hall)  
(Tel: 352-379-7375)

from 2PM to 5:30PM.

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