Syllabus for MATH 4103, Introduction to Functions of a Complex Variable, Sec. 001

Spring 2016

Lectures: TR 10:30–11:45 in 117 PHSC
Class web page: http://www2.math.ou.edu/~npetrov/math4103_s16.html

Instructor: Prof. Nikola Petrov, npetrov@ou.edu, 802 PHSC, office phone 325-4316
Office Hours: Mon 2:30–3:30 p.m., Tue 9:30 a.m.–10:30 p.m., or by appointment, in 802 PHSC


Grading: Your grade will be based on the following:

- Homework 15 %
- Pop-quizzes 15 %
- Two midterm exams 20 % each
- Final exam 30 %

Course grades will be assigned by calculating the total for each student in the class, listing the totals in rank order, and assigning grades according to a reasonable total needed for each letter. After each in-class examination, I will announce interim grades, so by the middle of the course you will have a good idea of where you stand, and what is required for a given grade.

Tentative exam dates:

- Midterm Exam 1 Thursday, March 3, in class
- Midterm Exam 2 Thursday, April 24, in class
- Cumulative Final Exam Friday, May 13, 8:00–10:00 a.m.

No books, notes, or electronic devices of any kind may be used during exams. Do not make travel plans that prevent you from taking any of the tests or the final exam at the scheduled time. If you have a legitimate reason for missing an exam that can be documented independently of your testimony (e.g., via a note or phone call from a doctor or a parent), you must contact me prior to the exam, in order to make an alternative arrangement. I am very fastidious about such matters, so don’t expect such arrangements unless you have a compelling excuse that meets the above conditions (especially the “prior notice” part).

Attendance: You are expected to attend all lectures, and you are responsible for all information given out during them. You are expected to arrive on time for the lectures, properly prepared and in good physical condition – in particular, adequately rested and up to date on the course material – so that you can maintain full concentration for the entire lecture.

All electronic equipment should be turned off before the start of every lecture, and should remain off until the class is dismissed. Since learning calculus requires your full attention, activities such as conversing with other students, eating, sleeping, reading a newspaper, listening to headsets, using computers, cell phones, or other electronic devices, are not allowed!

Homework and quizzes: The homework assignments will be given on the class web site. Your homework solutions must be turned in at the beginning of class on the due date. Giving just an answer to a problem is not worthy any credit – you have to write a complete solution which gives your step-by-step reasoning and is written in grammatically correct English. Although good exposition takes time and effort, writing your thoughts carefully will greatly increase your understanding and retention of the material. Your lowest homework grade will be dropped.
The problems in your homework should be in the order listed in the assignment, and the sheets should be stapled. No late homework will be accepted!

You are encouraged to discuss the homework problems with other students, but you should write up the solutions in your own words. Copying solutions from a solutions manual, from someone else’s work, or from the Internet is a complete waste of time, as you will not learn the material adequately, and you will pay a heavy price on the quizzes and the exams which constitute 85% of your course grade.

It is absolutely essential to solve a large number of problems on a regular basis. After each class, start on the problems for the topic discussed. It is much more efficient to work a few problems at a time in many sessions, rather than all at once, as this will allow your mind to assimilate the ideas better. Please read the textbook, paying special attention to the solved examples. The assigned homework problems are a bare minimum for most students to get a basic working knowledge of the required material, so on the class web-site you can also find FFT (“Food for Thought”) problems – problems that you should think about, but not turn them in with the regular homework. Being able to solve the FFT problems is essential for doing well on the exams.

Short in-class pop quizzes will be given at random times. Each quiz will be worth four points, of which one point is only for writing your name. Your lowest quiz grade will be dropped. There will be no make-up quizzes! If you miss several quizzes due to a legitimate reason (see above), talk to me as soon as possible.

Use of calculators and technology: A basic calculator may be needed for a few of the homework problems, but use of electronic devices of any kind during exams is prohibited. I recommend that you avoid using a graphing calculator.

Some important dates:

(1) First day of classes: Tuesday, January 19, 2016.

(2) Martin Luther King Day (no classes): Monday, January 18, 2016

(3) Last day to withdraw with an automatic W: Friday, April 1, 2016 for undergraduate students and Friday, February 26, 2016 for graduate students.

(4) Last day to withdraw without petition to the Dean: Friday, April 1, 2016 (for graduate students a W/F grade is assigned for withdrawals processed during the period February 29–April 1).


(6) Last day of classes: Friday, May 6, 2016.

Policy on W/I grades: Through the end of the sixth week of the semester, students can withdraw from the course with an automatic W. Between the seventh and tenth weeks of the semester, undergraduate students can continue to withdraw with an automatic W, but graduate students must obtain the instructor’s signature on the University’s “drop form” to withdraw from the course, and along with the signature the instructor must indicate whether the student is passing or failing at the time of the withdrawal. After the tenth week of the semester, all students can only withdraw via petition to the Dean of their college. The petition process also requires the instructor’s signature with a passing-failing indication at the time the petition is filed. Note that a “failing” indication on the petition means that even if the petition is approved the grade in the course will be weighted in the GPA as an F.

The grade of I is not intended to serve as a benign substitute for the grade of F, and is only given if a student has completed the majority of the work in the course at a passing level (for example everything except the final exam), the course work cannot be completed because of compelling and verifiable problem beyond the student’s control, and the student expresses a clear intention of making up the missed work as soon as possible. Moreover, current OU policies require that instructors and the affected students execute a written “Incomplete Contract” before a grade of I can be given. The contract makes clear: (1) what work is to be made up; (2) when the make-up work must be completed (which cannot be more than one calendar
year from the assignment of the I); and (3) what alternative grade will be assigned if the make-up work is not completed. If the make-up work specified in the contract is not made up within one calendar year, then the alternative grade specified in the contract will be entered on the student’s transcript. Thus the I grade does not become permanent on the transcript if it is not made up within one year.

**Academic Misconduct:** All cases of suspected academic misconduct will be referred to the Dean of the College of Arts and Sciences for prosecution under the OU Academic Misconduct Code. The penalties can be quite severe. *Don’t do it!* For more details on the OU policies concerning academic misconduct see

http://integrity.ou.edu/files/Academic_Misconduct_Code.pdf

This link also has information about students’ rights to appeal charges of academic misconduct. For information about admonitions (either accepting or contesting them) see

http://integrity.ou.edu/files/Admonition.pdf

Students are also bound by the provisions of the *OU Student Code*, which can be found at

http://judicial.ou.edu/content/view/27/32/

**Students with disabilities:** The University of Oklahoma is committed to providing reasonable accommodation for all students with disabilities. Students with disabilities who require accommodations in this course are requested to speak with the instructor as early in the semester as possible. Students with disabilities must be registered with the Office of Disability Services prior to receiving accommodations in this course. The Office of Disability Services is located in Goddard Health Center, Suite 166: phone 405–325–3852 or TDD (only) 405–325–4173.

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Caminante, son tus huellas el camino y nada más; 
caminante, no hay camino, 
se hace camino al andar. 
Al andar se hace camino, 
y al volver la vista atrás 
se ve la senda que nunca se ha de volver a pisar. 
Caminante, no hay camino, 
sino estrellas sobre la mar. 

Traveler, your footsteps are the road and nothing more; 
traveler, there is no road, 
the road is made by walking. 
By walking the road is made and when we turn to look back we see the path that will never be traveled again. 
Traveler, there is no road, only tracks of foam on the sea.

From *Proverbios y Cantares*, Antonio Machado (1875–1939)