

# Syllabus for MATH 2924, Differential and Integral Calculus II (Honors), Sec. 040 & 041

Fall 2015

**Lectures:** MWF 1:30 – 2:20 p.m., 809 PHSC

**Discussion sections:** TR 3:00 – 3:50 p.m., 117 PHSC

**Class web page:** [http://www2.math.ou.edu/~npetrov/math2924\\_f15.html](http://www2.math.ou.edu/~npetrov/math2924_f15.html)

**Class instructor:** Prof. Nikola Petrov, [npetrov@ou.edu](mailto:npetrov@ou.edu), 802 PHSC, office phone 325-4316

Office Hours: Mon 2:30–3:30 p.m., Wed 11:20 a.m.–12:20 p.m., or by appointment, in 802 PHSC

**Discussion section instructor:** Devin W. Mitchell, [dmitchell@math.ou.edu](mailto:dmitchell@math.ou.edu), 1028 PHSC

Office Hours: Tue 2:00–3:00 p.m., Fri 11:00 a.m.–12:00 p.m. in 1028 PHSC

**Prerequisite:** MATH 1914 with a grade of C or better

**Text:** *Calculus* (7th ed) by James Stewart, Brooks/Cole, 2012, ISBN 978-0-8400-5818-8

**Grading:** Your grade will be based on the following:

Homework	11 %
Quizzes	10 %
Three midterm exams	18 % each
Final exam	25 %

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 post 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.

## Test dates:

Exam 1	Thursday, September 24, in class	Sec. 6.1, 6.2*–6.4*, 6.6–6.8 (tentative)
Exam 2	Thursday, October 29, in class	Sec. 7.1–7.5, 7.7, 7.9, 8.1 (tentative)
Exam 3	Thursday, December 3, in class	Sec. 11.1–11.11, 10.1–10.2 (tentative)
Final Exam	Friday, December 18, 8:00–10:00 a.m.	All sections covered

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 all discussion classes, and you are responsible for all information given out during them. You are expected to arrive on time for the lectures and the discussion classes, 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 discussion class, 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!*

Homework assignments will be checked for completeness, and a few of the homework problems will be graded. I recommend that you write out the statement of the problem (perhaps in abbreviated form) as well as your solution; this will make it easier for you to review when you are studying for exams. Your discussion section instructor may set additional formatting requirements for the written work.

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 89% 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. If you need more problems to practice, note that the odd-numbered problems have answers at the end of the textbook. As a university level student, you must manage your time effectively, by working extra problems for the topics that give you difficulty and reviewing the material, so that you retain your knowledge.

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.

**Getting more help:** The Mathematics Department maintains a Math Center, PHSC 209, where highly qualified students will answer your questions. It is open 9:30–5:30 on MWR, 9:30–7 on T, 9:30–3:30 on F, and 3–7 on S.

**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: Monday, August 24, 2015.
- (2) Labor day holiday (no classes): Monday, September 7, 2015.
- (3) Last day to withdraw with an automatic *W*: Friday, October 30, 2015 for undergraduate students and Friday, October 2, 2015 for graduate students.
- (4) Last day to withdraw without petition to the Dean: Friday, October 30, 2015 (for graduate students a *W/F* grade is assigned for withdrawals processed during the period October 5–October 30).
- (5) OU-Texas football game holiday: Friday, October 9, 2015.
- (6) Thanksgiving break (no classes): November 25–27, 2015.
- (7) Last day of classes: Friday, December 11, 2015.

**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](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.

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 estellas 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)