

Syllabus for MATH 1823, Calculus and Analytic Geometry, Section 010

Spring 2010

Class meeting time and place: MWF 10:30 am – 11:20 am, 108 PHSC.

Instructor contact information:

Instructor: Prof. Nikola Petrov; e-mail npetrov@ou.edu; office 802 PHSC; office phone 325-4316
Office Hours: Monday 2:30–3:30 pm, Friday 11:30 am–12:30 pm, or by appointment
Class web page: http://www.math.ou.edu/~npetrov/math1823_s10.html

Prerequisites: MATH 1523 at OU, or satisfactory score on the placement test or on the ACT/SAT.

Text: *Calculus* (6th ed) by James Stewart, Brooks/Cole, 2008, ISBN 0–495–01160–6.

Grading: Your grade will be based on the following:

Quizzes	10 %
Homework	11 %
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 very good idea of where you stand, and what is required for a given grade.

Testing: The dates and the material covered for the midterm and final exams are given below.

Midterm Exam 1	Monday, February 15, in class	Sections 1.1–1.3, 2.1–2.5
Midterm Exam 2	Friday, March 12, in class	Sections 3.1–3.6
Midterm Exam 3	Friday, April 23, in class	Sections 3.7–3.9, 4.1–4.5
Final Exam	Tuesday, May 11, 8:00–10:00 am, 108 PHSC	All sections covered in class.

You must have your OU photo ID with you at all exams, and show it if requested. No books, notes, or electronic devices of any kind may be used during exams. When you have completed an exam, hand it in to your own discussion section instructor. 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 and verifiable reason why you cannot be present at an exam, you must contact me in advance of the test time and make an alternative arrangement.

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 the newspaper, listening to headsets, using cell phones, computers, or other electronic devices, are not allowed.

Homework and quizzes: The homework assignments will be given in the class web site. Your homework solutions must be turned in at the beginning of the discussion class. 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. No late homework will be accepted.

Homework assignments will be checked for completeness, and a few of the homework problems will be graded. The problems in your homework should be in the order listed in the assignment; 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 class 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 work a large number of problems on a regular basis. After each lecture, start on the problems for that topic. 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 in the text. The assigned homework problems are a bare minimum for most students to get a basic working knowledge of the required material – work on additional problems as needed (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 so that you retain your knowledge.

Short pop quizzes will be given once a week on average. Each quiz will be worth three points, of which one point is only for writing your name and discussion section number.

Graduate assistants and discussion sections: Along with your enrollment in MATH 1823-010, you are also required to be enrolled in one of the six associated weekly discussion sections for this course. These discussion sections are staffed by graduate teaching assistants and are intended to give you the opportunity to ask additional questions and see additional examples beyond that which can be accommodated in the course lectures. Information about the discussion sections and their designated graduate-assistant instructors is provided below.

<u>Section</u>	<u>Meeting day and time</u>	<u>Location</u>	<u>Instructor</u>
1823-011	Wednesday, 2:30 pm – 3:20 pm	115 PHSC	Bin Chen
1823-012	Wednesday, 3:30 pm – 4:20 pm	114 PHSC	Bin Chen
1823-013	Thursday, 9:00 am – 9:50 am	244 Copeland Hall	James Dover
1823-014	Thursday, 10:30 am – 11:20 am	119 PHSC	James Dover
1823-015	Thursday, 12:00 pm – 12:50 pm	439 Carson Engr Ctr	Ye Li
1823-016	Thursday, 1:30 pm – 2:20 pm	117 PHSC	Ye Li

Getting help: There are several resources for help if you are having difficulty. The Mathematics Department maintains a Help Center on the 4th floor of the Physical Sciences Center (very near the Mathematics Department Office in the northwest corner of the floor). You can just walk in and receive help. It is open Monday through Friday at least 9:30-5:30, and may be open a half hour earlier or later on some days. You can get help with calculus at the Mathematics Help Center at any time.

My office hours are listed above, and you are welcome to arrange an appointment with me at another time if those hours are not convenient for you. The success of my students is very important to me, and I am happy to work with you if you find it beneficial.

Use of calculators and technology: A basic calculator is 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.
- (2) Last day to withdraw with an automatic “W”: Friday, February 26.
- (3) Spring break (no classes): March 15–19.
- (4) Last day to withdraw with a “W/F” without petition to the Dean: Friday, April 2.
- (5) Last day of classes: Friday, May 7.

Policy on W/I grades: Until February 1, there is no record of a grade for dropped courses. From February 2 through February 26, you may withdraw and receive a “W” grade, *no matter what scores you have so far achieved*. From March 1 to May 7, University regulations specify that you may withdraw only in “very unusual circumstances;” moreover, a withdrawal after April 5 would require a petition to the Dean (such petitions are not often granted). Furthermore, even if the petition is granted, I will give you a grade of “Withdrawn Failing” if you are indeed failing at the time of your petition. *Avoidance of a low grade is not sufficient reason to obtain permission to withdraw after March 1.*

The grade of “I” is a special-purpose grade given when a specific task needs to be completed to finish the coursework. This is typically a term paper or other special assignment, so rarely makes sense in a mathematics course. An “I” cannot be given to avoid receiving a low grade.

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 University’s Academic Misconduct Code. The penalties can be quite severe. *Don’t do it!* For more details on the University’s policies concerning academic misconduct consult

<http://www.ou.edu/provost/integrity/>

For information on your rights to appeal charges of academic misconduct consult

<http://www.ou.edu/provost/integrity-rights/>

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.

Internet Resources: On the Internet there are numerous web sites that contain calculus theory, tutorials, and problems with solutions. The course web site has links to a few calculus web sites, and if you follow the link to the UC Davis Calculus Page, there is a much longer list there.

