

Calculus with Analytic Geometry III : Updated Syllabus

Math 126 B Winter 2019

Instructor: Professor Burke

Office: Padelford C-443

Course Website: <https://sites.math.washington.edu/~burke/126>

Office Hours: The Math Study Center or MW 11:30-12:20pm.

TA Office Hours: James: Tu 4-5pm, Th 4:30-5:30 MSC.

Gylys-Colwell: M 2:30-3:30 PDL C-8J, Th 2-3 MSC.

Text: *Multivariable Calculus* by James Stewart (this is a custom text for UW — you may also use *Calculus: Early Transcendentals, eighth edition* by Stewart) and access to Webassign for this text. You may purchase a hard copy of the text at the bookstore or use the electronic version that comes with Webassign.

Other Required Materials: During the last few weeks of the quarter, we will be using a set of notes on Taylor polynomials and Taylor series. You will be expected to download these notes from the course website.

Course Content: Math 126 covers a collection of somewhat diverse topics: vectors and vector functions, polar coordinates, calculus on vector functions, dot products and cross products, lines and planes, curvature, multi-variable functions, partial derivatives, optimization, tangent planes, double integrals, Taylor polynomials and Taylor series.

Math Study Center Information: The Math Study Center (located in Communication B-014) is a great place for students to work on math, WHETHER OR NOT THEY NEED HELP. We are not a tutoring center in the traditional sense. We provide a comfortable place and a supportive atmosphere for students to come together and study, in groups or individually. We have on staff a number of tutors (both graduate student TA's and advanced undergraduates) who will sit down with students and answer questions to help them get unstuck. We do not provide long blocks of uninterrupted one-on-one tutoring. Textbooks, calculators and other study materials are available to be checked out for in-room use.

Grading: Your grade will consist of:

Homework	15%
Exam I	25%
Exam II	25%
Final Exam	35%

Attendance: We will not take attendance during lectures and quiz sections. However, you are responsible for the information covered in **all** class sections. In particular, your TA will be presenting some material that will not be covered during lecture.

Homework: Homework assignments will be assigned and collected via Webassign. Homework will generally be due at 11:00 p.m. on Tuesdays **and** Thursdays. All final homework scores above 90% will count as 100%. Specifically, if ω is your final webassign homework score, then your homework score will be entered as $\min(100, 10 + \omega)$.

Exams: You must have your student photo ID to take an exam, and you must be prepared to present it. If you forget to bring your photo ID, or you have lost it, you must inform the proctor before the exam.

You will be allowed to use one 8.5×11 sheet of **handwritten** notes and a TI-30X IIS scientific calculator for the exams. **The TI-30X IIS is the only model of calculator that will be allowed on exams.** Other electronic devices (e.g., cell phones, laptops, tablet computers, headphones) are prohibited. *The visual presence of such a device will be considered cheating, and may result in your exam being taking away and a grade of zero given.* So please be certain to put these devices safely out of view in your backpack before an exam and to place your phones in airplane mode or turned off.

You may not share a calculator nor a note sheet with another student on an exam.

Exam Dates:

Exam I	Thursday, February 7	in quiz section
Exam II	Tuesday, March 5	in quiz section
Final Exam	Saturday, March 16	5:00–7:50 pm, Kane 110

Make-Ups: Extensions and extra submissions on homework will not be given under any circumstances. You may miss up to 10% of the total number of homework points during the quarter without penalty to your grade.

In the case of observance of religious holidays or participation in university sponsored activities, such as class field trips or athletics, arrangements must be made at least one week in advance for exams. You will be required to provide documentation for your absence.

Make-up exams will not be given. If you miss a midterm exam due to unavoidable, compelling, and well-documented circumstances (e.g., illness, transportation emergency), your final exam may be weighted more heavily. **Contact Prof. Burke immediately if one of these circumstances arises.**

Conflicts with the **final exam** are handled through the Math Student Services Office (PDL C-36).