

Calculus and Analytic Geometry II

Math 222 Sections 306/307 with Professor Yang

TA: David Dynerman

Lecture	Mondays, Wednesdays & Fridays, 9:55, B130 Van Vleck
Discussion 306	Tuesdays & Thursdays, 11:00, B309 Van Vleck
Discussion 307	Tuesdays & Thursdays, 12:05, B305 Van Vleck
Office Hours	Mondays 11-12, Tuesdays & Thursdays 4-5, 618 Van Vleck

General Info

This is the syllabus for Math 222 discussion sections 306 and 307 with Professor Yang. This class is taught in a lecture/discussion format. You will attend a large lecture with Professor Yang twice a week, and then meet with me twice a week in small sections to go over questions, homework problems, examples, and so on.

My goal is to help you learn the material as best as you possibly can. Please never hesitate to ask questions during discussion or via e-mail. I also love receiving feedback on teaching, organization, materials, and other course logistics.

This is the syllabus for discussion sections 306/307. The general syllabus for the whole course is maintained by Professor Yang at <http://www.math.wisc.edu/~thyang/syllabus222.html>

Additionally, homework, quiz solutions and other information will be posted to the discussion webpage at <http://www.math.wisc.edu/~dynerman/>.

Textbook

We will be using Thomas' Calculus 11th Edition, Including Second-Order Differential Equations, ISBN: 0-321-18558-7. This book is also used in most sections of Math 221 and 234, the first and third semesters of calculus.

Grading Policy

Your grade will be determined as follows:

Lecture		
	Midterm #1, February 27th, In-class	20%
	Midterm #2, April 24th, In-class	20%
	Final Exam, May 13th, 7:25pm	30%
Lecture Total		70%
Discussion		
	Quizzes	10%
	Homework	15%
	Exam Corrections	5%
Discussion Total		30%
Total		100%

Exams

Exams will contribute the largest part of your grade. There will be two midterms, each worth 20% of your grade, and one final exam worth 30%. Exams will be in-class, during the scheduled lecture period. Before

each exam we will schedule a convenient review time to go over questions and examples. The final exam will be cumulative.

Some guidelines regarding the exams:

- **Examinations will not be rescheduled because of travel arrangements.** It is your responsibility to schedule travel appropriately.
- Notes/textbooks will not be allowed during the exams.
- Calculators will not be allowed, and will not be needed.

Homework

Homework problems are listed for each week on Professor Yang's syllabus, and will be due the following week in discussion. Specific due dates (e.g. Tuesday or Thursday) will be announced each week.

Completing homework assignments is vital to your success in the class. Passively listening to lectures is not sufficient to learn the material, and without the practice gained from solving homework problems you will most likely have great difficulty with the exams.

For current homework assignments and due dates, see the discussion webpage ¹.

Homework Grading

Each homework assignment will be worth 10 points. On each assignment, I will randomly pick one or several problems to grade.

Late Homework

Late homework is generally not accepted. If you must miss class due to an emergency, please e-mail me ahead of time to make special arrangements.

Quizzes

In order to prepare you for the exams, we will have quizzes during discussion. These short (10 min) quizzes will be based primarily on previous homework assignments and previous exams. The quizzes are meant to help prepare you to answer exam-like questions in a timed setting without your book and notes.

Each quiz will be worth 10 points.

Exam Corrections

After each midterm, you will have the opportunity to submit corrections to mistakes you made on the exam. These corrections will not change your midterm grade; instead, they will be worth part of your discussion grade as listed above.

Class Times

The lecture meets Mondays, Wednesdays and Fridays at 9:55 in B130 Van Vleck.

Section 306 meets Tuesdays and Thursdays at 11:00 in B309 Van Vleck.

Section 307 meets Tuesdays and Thursdays at 12:05 in B305 Van Vleck.

¹<http://www.math.wisc.edu/~dynerman/>

Attendance

Attendance is not tracked, but you should think of all lectures and discussions as mandatory. Each day of discussion will have either homework due, or a quiz, or both.

If you must miss class for an emergency reason (medical, family, etc), please contact me BEFORE the absence. We will make special arrangements for you to hand in homework or make up a quiz.

Religious Holidays

In general, the University avoids scheduling mandatory requirements on religious holidays. If you must miss class for religious reasons, please contact me ahead of time so that we can make special arrangements.

Disabilities

If you require special accommodations for a disability, you should get in touch with the McBurney Disability Resource Center². They provide many services, including assessment and accommodation information for taking exams, quizzes, and so on.

After contacting McBurney, you should also notify me and Professor Yang³ so we can plan to accommodate you.

E-mail

DoIT⁴ has created mailing lists for our discussion sections. All students registered for the section are automatically signed up for the mailing lists. E-mails go to the address you have on record via MyUW⁵. I encourage you to use these class email lists for questions and course discussion.

If you have a question about something covered in lecture, a homework problem, or a course concept it's likely that other students have a similar question. I encourage you to use the classlists so that the entire section can benefit.

If you feel uncomfortable emailing a content question to the whole list, please feel free to send mail directly to me. If I feel the class will benefit from the answer, I will reply to the whole list removing your name from the initial email, unless you request that I not do so.

For all other questions (e.g. full add requests, personal issues pertaining to class, etc) please feel free to email me directly.

Section Class Mailing List

306 math222-306-s09@lists.wisc.edu

307 math222-307-s09@lists.wisc.edu

Course Load

Math 222 is a 5 credit class and involves a fair amount of work. For perspective, five credits constitutes about one third of a full-time student's academic load.

An unofficial guideline circulated around the university is that each credit of a course requires three hours a week of outside studying. This suggests that Math 222 will require 15 hours a week of outside studying. You may find weeks where you can complete your studies in less time - and that's OK - but you should be aware that this is a demanding course that will require a lot of you, especially near exams.

²<http://www.mcburney.wisc.edu/>

³thyang@math.wisc.edu

⁴<http://www.doit.wisc.edu/>

⁵<http://my.wisc.edu/>

Getting Help

Where should you go when you need extra help? Many options are available to help you succeed.

If you're having trouble with a concept or problem, first get in touch with me, either during or after discussion section, during my office hours, or via e-mail to the classlist.

Alternatively, you can (and should!) speak with Professor Yang. You can ask right after lecture, or visit him during office hours, which are Mondays and Fridays at 11:00 and Wednesdays from 12:30-1:00 in 705 Van Vleck.

If you find that you need more regular focused help, there are several options available.

First, the Mathlab⁶, staffed by graduate TAs, is available for free drop-in help. The Mathlab opens the second week of class, and runs Monday through Thursday, 3:30pm - 8:30pm in B227 Van Vleck. Mathlab is now open Sundays 3:30pm-6:50pm as well.

Another great free resource is GUTS⁷, the Greater University Tutoring Service. GUTS offers both drop-in and regular weekly tutoring. See their webpage for sign-up and drop-in information.

Another free option is the Mathematics Tutorial Program⁸. This is an intensive group-based tutorial program that requires a commitment to attend tutorial sessions. You work in small groups of students in the same course, along with a tutor. You must apply for this program; instructions are available on their website.

Finally, the Math department maintains a list of private for-pay tutors⁹. These are usually math graduate students or advanced undergrads and can provide one on one tutoring.

For more information on these options, also check out the Math department's "Getting help in your math class"¹⁰ page.

Am I in the right class?

Usually your initial math placement works out well. However, if you feel that you don't belong in the class (either because it's too elementary or too advanced) I encourage you to speak with Diane Rivard, the Math Placement Adviser, at placement@math.wisc.edu.

Getting (Personal) Help

College can be overwhelming and we can all use support from time to time. If you feel like you could benefit from professional help, I recommend you check out University Health Services¹¹. UHS provides many services, including support groups, one on one counseling and therapy, and even massages.

Call 265-5600 for more information or an appointment. Emergency 24 hour crisis counseling is available at this number.

⁶<http://www.math.wisc.edu/~mathlab/>

⁷<http://guts.studentorg.wisc.edu/index.asp>

⁸<http://www.math.wisc.edu/~tprogram/index.html>

⁹<http://www.math.wisc.edu/~paulson/tutor.html>

¹⁰<http://www.math.wisc.edu/~tprogram/mathhelp.html>

¹¹<http://www.uhs.wisc.edu/>