

PFP Math 104 Syllabus

Instructor: Clay Shonkwiler

Time: Monday, Wednesday and Friday, 10:00–12:00

Location: DRL 2C4

Office: DRL 3C11

Office Hours: Wednesdays, 9:00–10:00; Fridays, 1:00–2:00

Book: *Calculus* (6th edition), by James Stewart (http://stewartcalculus.com/media/7_home.php)

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Course web page: <http://www.math.upenn.edu/~shonkwil/pfp104>

Course Description: This course will primarily focus on the theory and applications of integrals. The material we cover will overlap areas traditionally covered in both Math 103 and Math 104.

Attendance: As per PFP policy, class attendance is mandatory.

Homework: Homework is an important part of any math class, as it is impossible to *learn* math without actually *doing* math. The goal of the assignments will be to develop and apply the tools and techniques discussed in class. Homework assignments will be due twice a week, usually Monday and Friday.

Homework must be stapled with your name clearly written at the top. What you turn in should be a final copy: it should be neat, legible, well-organized and contain actual English words that explain what's going on. If I can't read or understand your work you won't receive any credit.

Late homework will not be accepted, though your lowest homework grade will be dropped in computing your final grade.

Working with others on your homework is not only allowed, it is highly encouraged. You may work on your homework with anyone and, if done correctly, you are almost certain to learn more, have more fun and work more efficiently if you work in a group. The only rule is: **you must write up your final draft by yourself**. The point of working in a group is to learn the material better, not to copy someone else's work and abdicate the learning process completely.

Quizzes: Quizzes will be given each Friday except the last: on August 1, August 8 and August 15. Each quiz will consist primarily of problems similar to those assigned in homework. **Quizzes cannot be made up** unless arrangements are made ahead of time.

Exams: A cumulative final exam will be given on the last day of class, August 22. You may bring one $8\frac{1}{2}'' \times 11''$ sheet of notes to the final, but no other aids (such as books, calculators, etc.) are allowed.

Components of your final grade: Homework will contribute 20% to your final grade; quizzes and the final exam will each contribute 40%.

Office Hours: Office hours are an excellent time to talk to me about any material that you don't understand, to seek further examples, to ask questions and to pursue interesting or stimulating subjects in greater depth.

Office hours will be held on Wednesdays from 9:00–10:00 AM and Fridays from 1:00–2:00 PM. If you have a legitimate conflict with the scheduled office hours, please send me an email to schedule a meeting.

Additional help: If I were a perfect teacher, you could learn everything you need to know just by going to class. Unfortunately, I am not a perfect teacher, so there's a good chance that, at some point, you'll find yourself confused, stuck or otherwise frustrated by the material or the course. If you do, ask for help! Office hours are, of course, an excellent venue for this, but if you feel uncomfortable asking my help or if you find that my teaching style and your learning style simply don't mesh, there are many other resources available to you.

First and foremost, your fellow classmates are a great resource. Odds are that, for any question you have, there's someone in the class who can answer it, so don't be afraid to ask. Even the simple process of explaining why you're stuck to someone who is just as confused as you is often enough to make things clearer. Just be sure to return the favor when you get the chance to help someone else.

Second, there is a math review session devoted specifically to this course on Thursday evenings, 8:30–9:30 PM. There are also math reviews on Monday and Tuesday evenings.

Also, many of the PFP Peer Counselors have taken Math 104, either during PFP or in the course of the regular school year. Even if they can't help you themselves, they will have good ideas about where to get help.

Finally, many graduate students in the math department can be hired as private tutors. The math department maintains a list of approved private tutors which contains contact and rate information at <http://www.math.upenn.edu/ugrad/tutors.html>. Be aware that some graduate students are busy or out of town this month, so you may need to be somewhat persistent.