

Math 0230: Analytic Geometry and Calculus 2

Syllabus and Course OutLine

About the course

This is the second in a sequence of three calculus courses for science and engineering students. The goal is to prepare you to make use of calculus as a practical problem-solving tool.

Course Prerequisites

Math 0220 or equivalent, with a grade of C or better.

Textbook

The textbook for this course is Essential Calculus, Early Transcendentals, second edition by James Stewart.

Departmental Final Exam

All students in daytime sections (lectures starting before 6 PM) **must** take the departmental final exam at the time scheduled by the registrar, Friday, April 26 from 4:00 - 5:50 pm. Locations will be announced by the registrar at a later date and will be found on PeopleSoft. Make-up final exams will not be given unless there are exceptional circumstances. Calculators will not be permitted.

Evening sections will meet through final exam week, and the final exam will be given during the last scheduled class period. Your instructor will provide more details regarding your section.

Midterm Exams

Two midterm exams will be administered in class on the dates indicated in the course schedule for all day sections. Calculators will not be permitted.

Quizzes

Quizzes will periodically be given. Your instructor will provide you with more details regarding format and assessment.

Grades

Your course grade will be determined as follows:

- Two midterm exams 50% (25% each)
- Final exam 30%
- Homework assignments 10%
- Quizzes 10%

Some sections may deviate slightly from this recipe. Any deviations will be announced by your instructor at the beginning of the term.

Recitations

You will meet once each week with your TA in a classroom (without computers) to go over problems related to the material covered the previous week.

Labs (Online Homework)

One session each week will meet in the Scientific Computing Lab in Posvar Hall (WWPH 1200A). In the lab, you will work individually on problem-solving skills, using computer-generated problem sets assigned within the LON-CAPA online homework system. Resources to help you get started with LON-CAPA can be found here. Your TA will be available to help if you get stuck, but you are expected to solve all problems yourself. You may not complete all of the assigned problems during the scheduled lab sessions, in which case you are expected to complete it on your own by the deadline set by your instructor. You will be able to work on LON-CAPA problems from any computer with an internet connection and standard web browser.

Logging on

The URL for your homework in LonCapa is LonCapa link. At the login prompt, enter your usual Pitt username and for the password prompt type in your Pitt password. You must enter your username in lower case. (If there is a problem connecting to this URL you can instead connect to <https://homework2.math.pitt.edu>). You will be automatically linked to the calculus course in which you are enrolled. You enter this course material by the link "select" where it is listed.

First time LonCapa user

When you log on for the first time, you must change the default math display settings. To do this, go to the Main Menu at the top of the page. Under My Space, select Set my user preferences. Then within Content Display Settings select Math display settings. With the toolbar at the top, change from Default to jsMath and Save setting. You will not have to do this again. If the jsMath option is not present due to browser restrictions, then choose MathJax. If the default setting is not saved as jsMath or MathJax then the page is very difficult to read and at times does not make mathematical sense.

Doing your homework in LonCapa

Once logged in, go to the Course Content link at the top of the page. You should see a list of homework assignment folders. Above these homework folders is a link to syntax page, syntax.pdf, which you should read completely before getting started. You can then click on the homework folder to see your first set of assigned problems. When you enter an answer, the computer will tell you whether it is right or wrong. If you enter an incorrect answer, you can try again. The problems have a set limit on the number of attempts you get. If you have made half of the limited attempts offered and you still are incorrect, you should at that time seek assistance. You may return to an assignment as often as you like. The system will accept answers until the due date for the assignment. Once you have a correct answer, your full credit points for that problem are recorded. You can click the green right arrow at the top to go on to the next problem in the folder.

Textbook Practice Problems

The course schedule provides a list of practice problems from the textbook associated with each topic. You are expected to solve these problems, although they will not be collected and graded. Exam and quiz problems will often be modeled on these problems.

Computer Accounts

As a University of Pittsburgh student, you should already have a Pitt computer account. You will need to know your username and password to access the computer resources in the lab.

Getting Help

Tutoring (Math Assistance Center):

Tutoring and computing assistance is available in the Math Assistance Center (MAC) on the second floor of the O'Hara Student Center and the Dietrich School Scientific Computing Lab in Posvar Hall. Hours of operation and other pertinent information can be found on the Math Assistance Center website. Hours will also be posted outside the MAC and the Computing Lab.

Please use the Computing Lab for help with software, including LON-CAPA technical issues, and use the MAC for assistance with mathematical concepts.

Office Hours

Your instructor and TAs will announce their office hours at the beginning of the semester.

Disability Resource Services

If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact both your instructor and the Office of Disability Resources and Services (DRS), 140 William Pitt Union (412) 648-7890, drsrecep@pitt.edu, (412) 228-5347 for P3 ASL users, as early as possible in the term. DRS will verify your disability and determine reasonable accommodations for this course.

Course Policies

Academic Integrity

Cheating/plagiarism will not be tolerated. Students suspected of violating the University of Pittsburgh Policy on Academic Integrity may incur a zero score for the assessment in question. Students in this course will be expected to comply with the University of Pittsburgh's Policy on Academic Integrity and the Dietrich School of Arts and Sciences' Academic Integrity Code. Any student suspected of violating this obligation for any reason during the semester will be required to participate in the procedural process, initiated at the instructor level, as outlined in the University Guidelines on Academic Integrity. This may include, but is not limited to, the confiscation of the examination of any individual suspected of violating University Policy. Furthermore, no student may bring any unauthorized materials to an exam, including dictionaries and programmable calculators.

To learn more about Academic Integrity, visit the Academic Integrity Guide for an overview of the topic. For hands-on practice, complete the Understanding and Avoiding Plagiarism tutorial.

Diversity and Inclusion

The University of Pittsburgh does not tolerate any form of discrimination, harassment, or retaliation based on disability, race, color, religion, national origin, ancestry, genetic information, marital status, familial status, sex, age, sexual orientation, veteran status or gender identity or other factors as stated in the University's Title IX policy. The University is committed to taking prompt action to end a hostile environment that interferes with the University's mission. For more information about policies, procedures, and practices, see: Policies, Procedures, and Practices.

We ask that everyone in the class strive to help ensure that other members of this class can learn in a supportive and respectful environment. If there are instances of the aforementioned issues, please contact the Title IX Coordinator, by calling 412-648-7860, or e-mailing titleixcoordinator@pitt.edu. Reports can also be filed online: Report Form. You may also choose to report this to a faculty/staff member; they are required to communicate this to the University's Office of Diversity and Inclusion. If you wish to maintain complete confidentiality, you may also contact the University Counseling Center (412-648-7930).