Math 150:   Calculus with Analytic Geometry I
Semester: Summer Session 1, 2017
Instructor: Christopher Natoli

1   Details

Classroom: 204 Hunter West
Class time: 5:45–7:50pm Monday through Thursday
Office hours: TBD
Textbook: *Essential Calculus* by James Stewart, second edition, with WebAssign
Email: chrisnatoli@gmail.com (*do not email me at any other address*)
Website: https://chrisnatoli.github.io

2   Tentative lecture schedule

1. §1.3 The Limit of a Function
2. §1.4 Calculating Limits
3. §1.5 Continuity
4. §1.6 Limits involving Infinity
5. §2.1 Derivatives and Rates of Change
6. §2.2 The Derivative as a Function
7. §2.3 Basic Differentiation Formulas and §2.4 The Product and Quotient Rules
8. §2.5 The Chain Rule
9. §2.6 Implicate Differentiation
10. §2.7 Related Rates
11. Exam I
12. §2.8 Linear Approximations and Differentials
13. §3.1 Maximum and Minimum Values
14. §3.2 The Mean Value Theorem and §3.3 Derivatives and the Shapes of Graphs
15. §3.4 Curve Sketching
16. §3.5 Optimization Problems
17. §3.7 Antiderivatives
18. Exam II
19. §4.1 Areas and Distances
20. §4.2 The Definite Integral
21. §4.3 Evaluating Definite Integrals
22. §4.4 The Fundamental Theorem of Calculus
23. §4.5 The Substitution Rule
24. §7.1 Areas Between Curves
25. §7.2 Volumes
26. §7.3 Volumes by Cylindrical Shells
27. Exam III

3   Homework policy

Problem sets will be assigned roughly twice a week, on Mondays and Wednesdays. Those assigned on a Monday will be due the following Thurday at 11:59pm, and those assigned on a Wednesday will be due the following Monday at 11:59pm. (The first homework will be assigned on Monday, June 5, and will be due Thursday, June 8.) All problem sets will be conducted through an online service called WebAssign—more details about that to come. Late homework will not be accepted, but the lowest problem set score will be dropped from your grade.

4   Exams

There will be three exams and one final exam. The first three exams will cover the material since the last exam, but the final exam will be cumulative. Calculators and phones are not allowed on any exams. The dates of each exam are yet to be decided.

5   Grading

10% problem sets, 90% exams. The final exam will be worth two of the other exams. Your lowest exam grade will be dropped; if the final is the lowest grade, it will be counted as one exam. If you miss an exam, that will count as your lowest grade, so it will be dropped.