

MATH 123 - SEQUENCES & SERIES

Spring 2019

www.math.drexel.edu/~tolya/123S19.html

MTWR 10–11 (Curtis 452)

INSTRUCTOR

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OFFICE HOURS

TR 11–2, [Math Resource Center](#) (Korman 207).

CONTENT: differential equations, sequences and series, Taylor expansions.

OBJECTIVE

The goal is to acquire a basic understanding of the subject, as a preparation for pursuing it at a higher level or for employing it in other areas.

TEXTBOOK

H. Anton, I. Bivens, S. Davis, [Calculus: Early Transcendentals](#), 11th edition, Chapters 8 and 9. Older editions may also do.

HOMEWORK

I would expect you to read the textbook and to do the homework regularly and thoroughly. The homework will be posted on the course website, topic by topic. It will not be graded. You may also find it useful to work on the [practice problem sets](#).

QUIZZES

There will be a quiz every week.

Two lowest scores will be dropped, no makeups will be offered.

EXAMS

We will have two in-class midterms and a cumulative final exam.

The lower midterm score will be replaced by the final exam score if it is higher.

There will be no makeup exams.

GRADE COMPONENTS

Exams 28% each, quizzes 16%.

POSSIBLE SUPPLEMENTS

Tom Apostol: [Calculus, vol. 1](#)

Elliott Mendelson: [Schaum's Outline of Calculus](#)

Gregory Naber: [Lecture Notes on Calculus](#)

ACADEMIC MATTERS

Academic integrity: www.drexel.edu/provost/policies/academic-integrity

Accommodations: www.drexel.edu/oed/disabilityResources/students

Course add/drop: www.drexel.edu/provost/policies/course-add-drop

Course withdrawal: www.drexel.edu/provost/policies/course-withdrawal

APPROXIMATE CALENDAR

Week	Topic	Section
1	Differential equations and their solutions. Separation of variables.	8.1 8.2
2	Slope fields. Euler's numerical method. Integrating factors.	8.3 8.4
3	Convergence of sequences. Monotone sequences.	9.1 9.2
4	Midterm 1 Infinite series.	9.3
5	Convergence tests for series.	9.4, 9.5
6	Alternating series. Absolute and conditional convergence.	9.6
7	Taylor polynomials.	9.7
8	Midterm 2 Power series. Taylor series.	9.8, 9.9
9	Calculus with power series.	9.10
10	Catch up/review.	
11	Final	

This syllabus may be revised or updated during the term.