

Course	Dates	Time	Location
MATH121 – 02	9/9/09 – 12/14/09	MWF 10:00 – 10:50am	139 Exley Science Center

**Instructor:** Scott Schneider

**Course website:** <http://www.math.rutgers.edu/~scottsch/121.html>

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**Office:** 615 Exley Science Center Tower

**Office hours:** MW 3–4pm, T 1–2:30pm, and by appointment

**Text:** *Calculus: One Variable*, by Salas, Hille, and Etgen

**Course Description:** MATH121 is designed for students who have completed a high school calculus course and who might pursue study in an area for which calculus is an essential tool but who are not prepared to place out of calculus. This course is a deeper and broader study of calculus than MATH117; theoretical aspects are not the main focus but will not be avoided. The course will, together with MATH122, treat limits, derivatives, and integrals; the calculus of exponential, logarithmic, trigonometric, and inverse trigonometric functions; techniques of integration; plane analytic geometry; various applications of calculus; sequences and series, including power series and intervals of convergence.

**Course Structure:** There will be three in-class midterm exams and a cumulative final exam. Homework will be assigned regularly and will be collected for grading periodically throughout the semester. I will announce homework assignments in class as post them on the class website. There will also be several writing workshops throughout the course that will give you experience collaborating with your peers, writing solutions more formally than in the homework, and solving problems that are more difficult than those that will appear on the exams and in the homework. Each of the three midterms will be worth 15% of your grade. The final exam will be worth 30%, homework 15%, and workshops 10%. The following is a TENTATIVE schedule of lecture material. Please keep up with the readings by reading each section in the textbook around the time I lecture on it. You will be responsible for all of the material covered in lecture AND in the book, unless I indicate otherwise.

Day	Date	Sections	Day	Date	Sections
			Mon	9/14	1.3, 1.5
Wed	9/9	Introduction	Wed	9/16	1.6, 1.7
Fri	9/11	1.2, 1.4	Fri	9/18	2.1, 2.2
Mon	9/21	2.3	Mon	9/28	3.1
Wed	9/23	2.4	Wed	9/30	3.1, 3.2
Fri	9/25	2.5, 2.6	Fri	10/2	3.2
Mon	10/5	3.3, 3.4	Mon	10/12	3.5
Wed	10/7	Workshop 1	Wed	10/14	3.6
Fri	10/9	FIRST MIDTERM	Fri	10/16	3.7
Mon	10/19	4.1, 4.2	Mon	10/26	No Class
Wed	10/21	4.2, 4.3	Wed	10/28	4.6
Fri	10/23	4.4, 4.5	Fri	10/30	4.7
Mon	11/2	4.8	Mon	11/9	4.10
Wed	11/4	4.8, 4.9	Wed	11/11	4.11, 4.12
Fri	11/6	SECOND MIDTERM	Fri	11/13	Workshop 2
Mon	11/16	5.1, 5.2	Mon	11/23	5.5
Wed	11/18	5.3	Wed	11/25	No Class
Fri	11/20	5.4	Fri	11/27	No Class
Mon	11/30	Workshop 3	Mon	12/7	5.7
Wed	12/2	5.6	Wed	12/9	5.8
Fri	12/4	THIRD MIDTERM	Fri	12/11	5.9
Mon	12/14	Workshop 4 and Review	TBA	FINAL EXAM	