Tentative Schedule for MATH 131B:

Monday (Lecture)	TUESDAY (SECTION)		WEDNESDAY (LECTURE)	Friday (Lecture)	
Sep 19th	20th		21st	23rd1Metric spacesSection 1.1	
26th 2 Deint act too alere af motois motois	27th First section meets	3	28th 4	30th 5	
Point-set topology of metric spaces Section 1.2	Homework 1 available on ccle		Relative topology, Cauchy sequences and completeness Sections 1.3 and 1.4	Compact metric spaces Section 1.5	
Oct 3rd 6	4th	7	5th 8	7th 9	
Compact metric spaces (continued) Section 1.5	Homework 1 due (in section) Homework 2 available on ccle		Continuous functions on metric spaces & product spaces Sections 2.1 and 2.2	Continuity and compactness Section 2.3	
10th 10	11th	11	12th 12	14th 13	
Connectedness Section 2.4	Homework 2 due (in section) Homework 3 available on ccle		Sequences of functions: Pointwise and uniform convergence Sections 3.1 and 3.2	Uniform convergence and continuity Sections 3.2 and 3.3	
17th 14	18th	15	19th 16	21st 17	
The metric of uniform convergence and series of functions Sections 3.4 and 3.5	Homework 3 due (in section) Homework 4 available on ccle		Uniform convergence and integration Section 3.6	Uniform convergence and differentiation Section 3.7	
24th 18	25th	19	26th 20	28th	
Uniform approximation by polynomials Section 3.8	Homework 4 due (in section)		Power series Section 4.1	Midterm	
31st 21	Nov 1st	22	2nd 23	4th 24	
Real analytic functions Section 4.2	Homework 5 available on ccle		Abel's theorem & multiplication of power series Section 4.3 & 4.4	Exponential and logarithm functions Section 4.6 (and supplement)	
7th 25	8th	26	9th 27	11th	
Trigonometric functions Section 4.7 (and supplement)	Homework 5 due (in section) Homework 6 available on ccle		Periodic functions Section 5.1	Veteran's Day, No class	

Monday (Lecture)		TUESDAY (SECTION)		Wednesday (Lecture)		Friday (Lecture)	
14th	28	15th	29	16th	30	18th	31
Inner products on periodic function	ns	Homework 6 due		Trigonometric polynomials		Periodic convolution	
Section 5.2		Homework 7 available on ccle		Section 5.3		Section 5.4	
21st	32	22nd	33	23rd	34	25th	
Fourier and Plancherel theorems Section 5.5		Homework 6 due Homework 7 available on ccle		Differentiability in several variables Sectiona $6.2 \& 6.3$ (and supplement		Thanksgiving Holiday, No class	
28th	35	29th	36	30th	37	Dec 2nd	38
		Chain rule Section 6.4 (and supplement)		Clairaut's theorem Section 6.5 (and supplement)		Leeway, review Section ∞	