

MATH 405, WEEKLY SYLLABUS

Week	Topic	Textbook
1: 01/22 – 02/24	Infinite Sets – The Rational numbers	1.1,1.2,1.4
2: 01/29 – 01/31	Cauchy Sequences – The Real numbers	2.1,2.2
3: 02/5 – 02/7	Limits and Completeness	2.3,3.1
4: 02/12 – 02/14	Topology of the Real line	3.2,3.3
5: 02/19 – 03/21	Continuity	4.1,4.2
6: 02/26 – 02/28	Derivatives	5.1,5.2.1
7: 03/5 – 03/7	More on derivatives	5.2.2,5.2.3,5.3
8: 03/19 – 03/21	Taylor's Theorem	5.4
9: 03/26 – 03/28	Integration	6.1
10: 04/2 – 04/4	More on integration	6.2,6.3
11: 04/9 – 04/11	Complex numbers – Numerical Series	7.1,7.2
12: 04/16 – 04/18	Power Series	7.3, 7.4
13: 04/23 – 04/25	Review	–