## APPROXIMATE COURSE SCHEDULE

## N. CHRISTOPHER PHILLIPS

This schedule is *approximate*, and is subject to change. I hope to put at least one optimization problem already in Week 2.

Week 1	2.1 – 2.4	Limits
Week 2	3.1 - 3.3	Intro to derivatives, power rule, exponential rule
Week 3	3.4,  4.7,  3.3	Linear approximation, optimization, product rule
Week 4	3.3,  3.5,  4.7	Higher derivatives, trig derivatives, more optimization
Week 5	3.6,  3.8,  3.7	Chain rule, implicit differentiation, inverse functions
Week 6	4.7, 4.1	More optimization, related rates
Week 7	4.3,  4.5,  4.6	Maxima/minima, shapes of graphs, limits at infinity
Week 8	4.6,  4.8,  4.4	More limits at infinity, L'Hopital's Rule, MVT and IVT
Week 9	4.8,6.8,4.5	Rates of growth, exponential growth, second derivative test
Week 10	4.9, review	Newton's method, review

Date: 13 January 2025.