



(Tentative) Timetable (**Updated: March 11**)

	Monday	Tuesday	Wednesday	Thursday	Friday
2/12–2/16	introduction		§1.1-1.3 linear algebra recap, displacement vectors		§1.4 cross product
2/19 – 2/23	§1.5 affine geometry: lines, planes etc.		§1.7 coordinate systems I		<b>!! NO CLASS !!</b>
2/26 – 3/2	§1.7 coordinate systems II		§3.1 parameterised curves		§3.3 vector fields I, flow lines
3/5 – 3/9	<b>Case Study A:</b> Kepler's Laws I NE		<b>Case Study A:</b> Kepler's Laws II NE	<b>!! Exam I !!</b>	§2.1 functions of several variables I <b>PFDD</b>
3/12 – 3/16	§2.1 functions of several variables II, level sets		§2.2 limits, continuity		§2.3 partial derivatives, the derivative I <b>DD</b>
3/19 – 3/23	§2.3-2.4 the derivative II		§2.5 chain rule		§2.6 tangent plane, directional derivatives, gradient
4/2 – 4/6	§3.3-3.4 vector fields II, grad, potential functions		§6.3 The Potential Function Problem		§6.1 line integrals
4/9 – 4/13	§6.3 The Fundamental Theorem of Line Integrals			<b>!! Exam II !!</b>	§4.2 extrema
4/16 – 4/20	§4.3 Lagrange multipliers I		§5.4 Lagrange multipliers II, applications		Spring Symp. <b>!! NO CLASS !!</b>
4/23 – 4/27	§5.1-5.2 integration of functions of several variables I		§5.2-5.4 integration of functions of several variables II		§5.4 integration of functions of several variables III
4/30 – 5/4	§5.5 change of variables		§5.6 applications of integration		§6.2 Green's Theorem
5/7 – 5/11	§7.1-7.2 parameterised surfaces, surface integrals		§7.2 surface integrals		§7.3 Stokes' Theorem
5/14	§7.3 Gauss' Theorem				

**Notes:**

1. Topics may not be covered precisely as timetabled.
2. This schedule is subject to change.
3. §X.y refers to Chapter X, Section y of the course textbook *Vector Calculus*, by Colley (4th Edition).
4. PFDD = Pass/Fail/D Deadline, DD = Drop Deadline, NE = non-examinable
5. Lectures shaded red will follow the 'flipped classroom' model. Further details can be found at the course website.