

(Tentative) Timetable

	Monday	Tuesday	Wednesday	Friday	Topics
2/4 – 2/8	NO	CLASS			introduction, linear algebra review §2
2/11 – 2/15			HW1		reps, subreps; irred., decomp., unitary; Maschke's... §3.1-2
2/18 – 2/22			HW2		... Theorem; morphisms, Schur's Lemma; group algebra, Schur ortho... §3.2, 4.1-2
2/25 – 3/1			HW3		...ogonality relations; characters, class fns; first ortho... §4.2-3
3/4 – 3/8			HW4		...gonality relation; consequences for reps; regular rep; character... §4.3-4
3/11 – 3/15	Diagnostic Test		HW5		...tables; second orth. relation; lots of examples §4.4
3/18 – 3/22			HW6		Case Study: finite ab. grps Fourier analysis on finite groups §4.5, 5.1-3
3/25 – 3/29	SPRING	BREAK...	GO	WILD !!	
4/1 – 4/5			Midterm 7-9pm Location: TBA		Fourier analysis cont'd; Dimension Theorem; §5.2-3, §6.1-2
4/8 – 4/12			HW7		group actions; permutation reps §7.1-2
4/15 – 4/19	Project Submission (tentative)		HW8		partitions, Young things, tabloids, Sprech reps Subrepresentation... §10.1-2
4/22 – 4/26			HW9		... Theorem; additional topics TBD §10.2
4/29 – 5/3			HW10	NO CLASS	additional topics TBD
5/6 – 5/10					additional topics TBD

Notes:

1. §Y.a refers to Ch.Y, Section a in *Representation Theory of Finite Groups*, by B. Steinberg.
2. Topics may not be covered precisely as timetabled. This schedule is subject to change: we may require some further introductory lectures on advanced topics in linear algebra, real analysis.