

**2014 Syllabus ECO 581 - ABM** (subject to lurching improvements)

week	Date	Lecture/Discussion	Readings	Lab (in class work & assignments)	Due (Friday of the same week)	# weeks
0	1-Sep	<b>NO CLASS</b>	RG ch 1 & preface, NetLogo Docs (Guide, Dict, Tutorials)	(NetLogo Startup)	<b>(NetLogo Startup)</b>	
1	8-Sep	Introduction to ABM	MP ch 1,2,3, MP Appendix B (Guide)	demo: NetLogo top to tail assigned: A1, Proposal	A1	1
2	15-Sep	ABM Methodology (Niche, Design, Cycle)	MP ch 4,5 "Computation as Theory" McElreath & Boyd ch 1 handout	demo: A1 assigned: A2	A2	1
3	22-Sep	Emergence (of collective behavior)	RadioLab: Emergence, Epstein 1999	demo: A2 assigned: A3	Proposal	3
4	29-Sep	POM Workshop	RG ch 18,19 (POM)	Conference: Round 1 (concept) assigned: Draft ABM	A3	2
5	6-Oct	ABM Analysis <b>** Patrick Hiesl</b>	RG ch 22 & 23 (Analysis)	demo: A3 assigned: ABM Paper Critique	ABM Paper Critique	1
6	13-Oct	<b>NO CLASS</b>	<b>(Fall Break)</b>	<b>no lab!</b> assigned: Model Analysis	NetLogo Model Analysis	1
7	20-Oct	Measuring Emergence <b>** Tim Waring</b>	Wade 2010, Mesoudi et al 2004, Waring CMLS draft	Conference: Round 2 (draft) assigned: Peer Review	Draft ABM (to peers)	4
8	27-Oct	Documentation <b>** Jim Wilson</b>	RG ch3 (ODD), Wilson 2007 PNAS - "Precursors"	Conference: Peers assigned: nothing!	Peer Reviews	2
9	3-Nov	Analysis Workshop	-	demo: GSS SA R workflow assigned: Pair Programming	-	
10	10-Nov	<b>** Jared Homola</b>	RG ch 20 (Calibration), Ormerod 2009 (validate&verify)	demo: <u>slot open</u> assigned: Final Project	Draft ABM (to me)	7
11	17-Nov	Debug Workshop (Homola, Heisl, others...)	<b>(NIMBioS)</b>	Conference: Round 3 assigned: Final Project	-	
12	24-Nov	Workshop	-	Analysis Workshop	-	
13	1-Dec	Presentations Course Evaluation	<b>(Model Freeze)</b>	Presentations, Group 1	-	
14	8-Dec	Summary Discussion	-	Presentations, Group 2	<b>Projects Due</b>	4
15	<b>Exam Week</b>	CodeOff!	-	-	-	