

MATH 160
Schedule of Lectures
no textbook

CLASS	MODULES	LECTURES*
1,2	review	group warm up, general information, part 1 of function overview
3		part 2 of function overview
	tutorial	NONE
4,5		transformation discovery and summary, function practice, conic overview, conic practice, relations design project (DUE January 25th in class)
6		design check, development of criteria, outline of reading task
	tutorial	math survey, relations design project help
7,8	history	brief history of mathematics, reading of Cultures I, Q&P2
9		reading of Cultures II, Q&P3, historical mathematician poster guidelines (DUE February 8th in class)
	tutorial	discussion on poster criteria, selection of mathematician, sketch report handed out (DUE at the end)
10,11		brief history of calculus, guest lecturer: Dr. Tom Archibald
12		plagiarism, citations, internet resources: MacTutor, MathWorld, etc, help with poster design
	tutorial	reading of Women Mathematicians, Q&P4, RETURN sketch report and relations design project
13,14		poster evaluation by peers, discussion on presentation criteria, posters collected for TA evaluation
15		drop date , RETURN posters, poster presentations, presentation evaluations
	tutorial	
16,17	infinite & infinitesimal	about projects, discussion of report criteria, project: paradoxes (DRAFT DUE February 23rd 10 am in my office, REPORT DUE March 1st in class), infinity, limits, sequences, series, the Cantor set
18		Zeno's Dichotomy, article <i>True on the face of it</i>
	tutorial	history QUIZ, help with project: paradoxes
19,20		4 paradoxes of motion by Zeno, help with project: paradoxes
21		draft meeting with instructor: 5 minutes/group, 1-2 written comments
	tutorial	draft meeting with TA: 5 minutes/group, 1-2 written comments and help with instructor comments if needed
22,23	chaos	report participation, fractions, chaos, fractals, fractal generator (link on WebCT), chaos game
24		project: fractal construction (DRAFT DUE March 9th 10 am in my office, REPORT DUE March 15th in class)
	tutorial	infinite & infinitesimal QUIZ, fractal cards
25,26		fractal investigations, article <i>A Multifractal Walk down Wall Street</i>
27		draft meeting with instructor: 5 minutes/group, 1-2 written comments
	tutorial	draft meeting with TA: 5 minutes/group, 1-2 written comments and help with instructor comments if needed, RETURN paradox report
28,29	logistic growth	report participation, sketching graphs from words, gossip travels fast, project: sociology (DRAFT DUE March 23rd 10 am in my office, REPORT DUE March 29th in class)
30		logistic growth
	tutorial	chaos QUIZ

31,32		the math behind combating bioterrorism
33		draft meeting with instructor: 5 minutes/group, 1-2 written comments
	tutorial	draft meeting with TA: 5 minutes/group, 1-2 written comments and help with instructor comments if needed, RETURN chaos report
34,35	models & readings	report participation, project: models and readings (REPORT DUE April 7th in class), disk and shell methods animated, <i>Flatland</i>
36		course survey, presence mandatory
	tutorial	logistic growth QUIZ
37,38		draft meeting with instructor by appointment
39		models presentations in groups
	tutorial	readings presentations in groups, RETURN logistic growth project, wrapping up