

Math 214 Fall 2014 Section 0201 University of Maryland, College Park

The following course schedule is tentative, subject to change as necessary.

Date	Section	Topic	Homework exercises (“BAM” refers to Beckmann Activity Manual, portions of which are available for download on the course website for those students who do not own a copy.)
			Homework always includes reading the appropriate sections!
W, 3 Sep	Intro	purposes of Math 214	Read Section 1.1
F, 5 Sep	1.1-1.3	Data – the raw material of statistics	p. 10 (#3, 4, 7, 9, 13-29 odd); also, name the <i>type</i> and <i>level of measurement</i> of each variable from the class survey of the first class (blank survey is online)
M, 8 Sep	2.1-2.2	Representations of one-variable categorical data	p. 33(#1, 3, 5, 11, 13, 17, 21); BAM 15E (#1-3), 15F (#3)
W, 10 Sep	3.1 worksheet	Representations of one-variable quantitative data	“Stem-and-leaf” worksheet; BAM 15F (#1)
F, 12 Sep	3.1 worksheet	Quiz 1; Representations of one-variable quantitative data, cont’d	p. 78 (#49, 53, 54a, 55); finish Migraines Histogram worksheet
M, 15 Sep	2.2	Representations of two-variable categorical data	p. 38 (#25, 27, 31, 33, 35, 39, 43)
W, 17 Sep	2.2 worksheet	Other representations of data	BAM 15F (#2); “Graph Summary” worksheet
F, 19 Sep	2.2	Quiz 2; Interpreting data displays	finish “Three Levels” worksheet
M, 22 Sep	3.4	Describing quantitative distributions lexically	p.73 (#13-17 ALL); begin Project 1
W, 24 Sep	3.6	Describing quantitative distributions numerically	BAM 15M (#2-5); continue Project 1
F, 26 Sep	3.6	Quiz 3; Mean, continued	BAM 15N (#1, 2); “Homework on Means”; Project 1
M, 29 Sep	3.3	Measures of center: the median	p. 72 (#4, 5, 6, 19a, 25a, 26, 33, 37); BAM 15Q (#1-2); finish Project 1
W, 1 Oct	3.4	Project 1 due; Measures of spread: percentiles, quartiles, IQR	p. 72 (#21, 23) BAM 15W (#1-3);
F, 3 Oct	3.5	Quiz 4; Boxplots & outliers	finish Migraines Boxplot worksheet (from class); p. 72 (#1, 2, 3)
M, 6 Oct	3.7	Measures of spread: standard and absolute deviations; Summarizing distributions	p. 73 (#8, 19c, 25b, 27, 29, 31, 39); “Deviations” worksheet
W, 8 Oct	4.5	Quiz 5; Comparing distributions	p. 101 (#15, 17, 19, 23, 25, 31); “Comparing Distributions” worksheet
F, 10 Oct	5.1-5.2	Standardization	p. 132 (#1, 3, 7, 21, 23, 25, 31, 35, 37)
M, 13 Oct	handout	Quiz 6; Randomness; Intro to sampling	Exam 1 review packet
W, 15 Oct		Review for Exam 1	Study!
F, 17 Oct		Exam 1	none
M, 20 Oct	9.1-9.2	Sampling	p. 264 (#11); Quiz 7 part 1

W, 22 Oct	10.3-10.4	Types of sampling	p. 286 (#5, 7, 13, 15,); BAM 15S (#4, 5); Quiz 7 part 2
F, 24 Oct	10.7	Bad sampling and bias	p. 287 (#11, 17, 19, 21, 24, 25, 27, 29, 31, 33, 35, 45)
M, 27 Oct	worksheet	Counting principles & Venn diagrams	“Counting and sorting” worksheet; BAM 16F (#1-4); begin Project 2
W, 29 Oct	worksheet	Quiz 8 ; Permutations & combinations	“Permutations and Combinations” worksheet; continue Project 2
F, 31 Oct	12.1	Introduction to probability	p. 334 (#1, 9, 11); continue Project 2
M, 3 Nov	12.1	Empirical probability and the LLN	p. 334 (#3, 13); finish “Tumbling Thumbtacks”; continue Project 2
W, 5 Nov	12.2	Quiz 9 ; Theoretical probability and “simple” trees	p. 334 (#5, 19); “Theoretical Probability” worksheet; continue Project 2
F, 7 Nov	12.3	Events, Venn diagrams, and the Addition Rule	p. 336 (#27, 33, 39a), p. 356 (#1, 15, 17); finish Project 2
M, 10 Nov	12.3	Project 2 due ; Independence and the Multiplication Rule	p. 334 (#7, 25, 29, 31, 39b, 41, 43, 47, 49)
W, 12 Nov	13.1,13.3	Quiz 10 ; Conditional probability	p. 356 (#3, 7, 21, 23, 33, 37, 39, 41)
F, 14 Nov	13.2,13.4	Tree diagrams; Using probability rules	p. 356 (#5, 11, 27, 29, 31, 47, 55ab); BAM 16L (#1, 3)
M, 17 Nov	14.1	Quiz 11 ; Random Variables and Expected Value	p. 387 (#1, 15, 17, 19, 21, 33a, 35, 37ab); BAM 16K (#1, 2)
W, 19 Nov	handouts	Elementary school probability I	For each game in the handout, analyze whether or not it is fair
F, 21 Nov	worksheet	Elementary school probability II	Finish worksheet
M, 24 Nov	worksheet	Quiz 12 ; Theoretical and experimental probability	Exam 2 review packet
W, 26 Nov	TBA		
M, 1 Dec		Review for Exam 2	Study!
W, 3 Dec		Exam 2	begin Project 3
F, 5 Dec	handouts	Connecting data and chance	worksheet (#6, 7, 8, and ‘Discussion’ #1); continue Project 3
M, 8 Dec	handouts	Connecting data and chance, cont’d	continue Project 3
W, 10 Dec	worksheet	Introduction to hypothesis testing	final exam review; finish Project 3
F, 12 Dec		Project 3 due ; Review for Final	Study a lot!
M, 15 Dec		Final Exam 1:30-3:30 pm	room to be announced

Note that this is the uniform time for all Math 100- and 200- level courses.