

Biology 202_006, Genetics & Molecular Biology Spring 2010 Syllabus

DATE	DAY	SUBJECT	READING
Jan 11	M	Intro. genes, phenotype & organisms (Slep)	1: all
Jan 13	W	DNA structure & replication (Slep)	7: all
Jan 15	F	Mitosis & meiosis (Slep)	2: 31-37,42-61
Jan 18	M	HOLIDAY - NO CLASS	
Jan 20	W	Monohybrid crosses (Slep)	2: 37-42
Jan 22	F	Dihybrid crosses, probability (Slep) HW1 online	3: 89-97,99-109
Jan 25	M	Sex determination, sex linkage (Slep)	2: 61-65,71-74
Jan 27	W	Allelism (Slep)	3: 97-99; 6: 221-229
Jan 29	F	Complementation (Slep) HW1 due, HW2 online	6: 230-239
Feb 1	M	Prokaryotic genetics (Slep)	5: all
Feb 3	W	Non-Mendelian genetics (Slep)	3: 112-118; 11: 402-404
Feb 5	F	Pedigree analysis (Slep) HW2 due	2: 66-71
Feb 8	M	MIDTERM EXAM I (covers Jan 11 – Feb 3)	
Feb 10	W	Epistasis, penetrance, expressivity (Slep)	6: 239-249
Feb 12	F	Linkage & recombination (Slep) HW3 online	4: 129-145
Feb 15	M	Linkage mapping (Slep)	4: 146-153
Feb 17	W	Tetrad analysis (Slep)	4: 154-165
Feb 19	F	Ploidy (Slep) HW3 due, HW4 online	16: 555-572
Feb 22	M	Duplications & deletions (Slep)	16: 572-579
Feb 24	W	Translocations & inversions (Slep)	16: 580-590
Feb 26	F	Recombination (Slep) HW4 due	15: 542-546
Mar 1	M	MIDTERM EXAM II (covers Feb 5 – Feb 24)	
Mar 3	W	What is Science? (Killebrew)	On Blackboard
Mar 5	F	RNA & Transcription (Killebrew) HW5 online	8: 295-304
Mar 8	M	NO CLASS - SPRING BREAK	
Mar 10	W	NO CLASS - SPRING BREAK	
Mar 12	F	NO CLASS - SPRING BREAK	
Mar 15	M	Prok. transcriptional regulation (Killebrew)	10: 351-368; 378-9
Mar 17	W	Euk. transcriptional regulation I (Killebrew)	8: 305-8, 11: 385-94
Mar 19	F	RNA Processing (Killebrew) HW5 due, HW6 online	8: 308-312

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DATE	DAY	SUBJECT	READING
Mar 22	M	DNA Mutation (Killebrew)	15: 513-531
Mar 24	W	DNA Repair (Killebrew)	15: 531-542
Mar 26	F	Translation (Killebrew) HW6 due, HW7 online	9: 319-344
Mar 29	M	Proteins (Killebrew)	
Mar 31	W	Euk. transcriptional reg. II (Killebrew)	11: 394-412
Apr 2	F	NO CLASS - HOLIDAY	
Apr 5	M	DNA Mutation & Development (Killebrew) No recitation this week.	12: 415-436
Apr 7	W	EXAM III (covers Feb 26-Mar 31)	
*Apr 9	F	DNA Engineering I: Enzymes and Gels (Killebrew) <i>*class relocated to Chapman Hall 201</i> Optional HW online	20: 715-720
Apr 12	M	DNA Engineering II: Vectors and Libraries (Killebrew)	20: 720-724
Apr 14	W	DNA Engineering III: Blotting, RFLPs (Killebrew)	20: 724-730
Apr 16	F	DNA Engineering IV: PCR and DNA Seq. (Killebrew) HW7 due, HW8 online	20: 730-736
Apr 19	M	DNA Engineering III: Blotting, RFLPs (Killebrew)	20: 724-730
Apr 21	W	Genomics I: Whole-genome Sequencing (Killebrew)	13: 453 - 474
Apr 23	F	Genomics II: Functional Genomics and DNA microarrays (Killebrew) HW8 due	13: 475-484
Apr 26	M	Model Organisms and Transgenics (Killebrew)	20:741-754, 759-773
Apr 28	W	Genomics IV: Modern DNA sequencing (Killebrew)	TBA: see Blackboard
Apr 30	F	FINAL EXAM 8:00 am ***** Cumulative ***** <i>Note: 25 pts each for quarters 1, 2, and 3. 125 points for quarter 4 (April 5-28).</i>	